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MISCELLANEOUS PUBLICATION No. 60

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Revised January, 1932

LIST OF
AVAILABLE PUBLICATIONS
OF THE
UNITED STATES
DEPARTMENT OF AGRICULTURE

JANUARY 2, 1932

*Arranged Alphabetically
by Subjects*

Compiled by

JOHN O. RILEY

Division of Publications
Office of Information

SEE REVISED
EDITION



UNITED STATE
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1932



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LIST OF AVAILABLE PUBLICATIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE

INTRODUCTION

This pamphlet contains a list, alphabetically arranged and classified by subjects, of the available publications of the United States Department of Agriculture, together with a description of the nature and scope of the different series and of the various periodicals.

Instructions to be followed in ordering publications, and rules governing the distribution are also given.

RULES GOVERNING THE DISTRIBUTION OF DEPARTMENT PUBLICATIONS

Owing to the limited editions, it is not possible to have at all times in the department stock, a supply of every publication issued. It has therefore been found necessary, except in special cases, to restrict the number furnished free in reply to individual requests to not more than 10 publications.

Four-fifths of the publications of the series known as farmers' bulletins are allotted to Members of Congress, for such distribution as they may direct. Therefore, when publications of this class are desired in quantities, it is often possible to obtain them free by applying to a United States Senator or Representative. Also by a provision in the law governing the printing and distribution of Government publications, the Superintendent of Documents, Government Printing Office, is empowered to have printed for sale only, any publication for which there is a demand that can not be filled by the department issuing it. This department does not sell publications. Hence when sale publications are wanted the request and the remittance should be addressed to the Superintendent of Documents, Government Printing Office, and not to the department.

The publications herein designated by an asterisk (*) can be obtained by purchase only. Remittance should be made in the form of a postal money order, express money order, or New York draft. Currency is sent at the sender's risk. For delivery to foreign countries add postage amounting to one-third of the total cost.

INSTRUCTIONS FOR REQUESTING AND ORDERING PUBLICATIONS

REQUESTS FOR FREE PUBLICATIONS

Address your request to the Office of Information, Department of Agriculture, Washington, D. C.

Be sure to write name and address plainly and to include street and number or rural route number, as the case may be.

Indicate by both number and title the publication you desire.

If you do not find bulletins on the subject in which you are interested listed herein, write to the department for information.

Do not send money or stamps to the department in payment for publications or information.

ORDERS FOR PUBLICATIONS FOR SALE ONLY

Address your order, inclosing the proper remittance, to the Superintendent of Documents, Government Printing Office, Washington, D. C. Remittances should be made in the form of a postal money order, express money order, or New York draft. Do not send postage stamps, or foreign money. Currency is sent only at the sender's risk.

No charge is made for postage on publications forwarded to points in the United States and its possessions, or to Canada, Cuba, Mexico, Panama Canal Zone, and the Republic of Panama. For delivery to other foreign countries add for postage one-third of the advertised price.

Do not return this list in requesting or ordering publications, but write a list of those you desire when you send your letter.

SPECIAL.—It is earnestly requested that when ordering more than one publication, the correspondent arrange his list so that numbers designating the bulletins wanted will appear in consecutive order. This will greatly expedite the handling of the request.

NATURE AND SCOPE OF THE DIFFERENT SERIES

The various series of publications issued by the department are here listed in alphabetical order.

CIRCULARS

The circular series carries semitechnical material of a somewhat informal and general nature. In the Technical Bulletin series is published the more technical material. The circular series was formerly known as the department circular series, which ended with No. 425.

FARMERS' BULLETINS

Farmers' bulletins cover a wide range of subject matter and are of interest to a great many groups of persons. They are written in popular language easily understood by the layman.

The distribution of four-fifths of all farmers' bulletins is in the hands of Members of Congress and only one-fifth are assigned to the United States Department of Agriculture for distribution. Requests may be made to your United States Senator or the Representative from your district or to the Department of Agriculture.

INVENTORIES OF SEEDS AND PLANTS IMPORTED

This series is a record of new or little-known seeds and plants procured mostly from abroad for the use of the department, State experiment stations, and for distribution to experimenters in appropriate

locations throughout the United States and its possessions. These publications are intended for distribution to the agricultural experiment stations and to the more important private cooperators. There are four issues a year, each covering a 3-month period.

LEAFLETS

A new series of publications called "Leaflets" has been started which carries popular material of the same general character as the farmers' bulletin series, except that the leaflets are confined to specific practical directions and recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and limited to eight pages in length. Much of the material now being published in farmers' bulletins will be condensed and published in this form.

MISCELLANEOUS PUBLICATIONS

This series includes publications of a miscellaneous nature which do not fall within any of the other series of the department. They were formerly called the miscellaneous circular series, which ended with No. 110.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey, devoted principally to revisions of genera of mammals and to biological surveys of States and other major areas. These publications are of interest chiefly to professional biologists.

SOIL SURVEYS

Soil survey reports consist of two parts: (1) A soil map in colors, showing the extent and distribution of the different soils in the area covered by the survey; (2) a printed report, containing brief descriptions of the area, its climate and agriculture, and detailed description of the soils.

STATISTICAL BULLETINS

Statistical bulletins consist of tables giving statistics relating to one or more closely related agricultural commodities. They also include, in so far as possible, statistics of production, movement from the farm, receipts at principal markets, reshipments, farm and market prices, exports and imports, production in foreign countries, and foreign-market prices. They are of interest to persons actually engaged in agricultural work, particularly marketing, or any business affected by agricultural production and marketing.

TECHNICAL BULLETINS

Results of the scientific and research work of the United States Department of Agriculture are printed in the technical bulletin series, which is intended for distribution chiefly to scientists and subject-matter specialists. In most cases a comparatively small edition is printed, and only a limited number is available for free distribution. Formerly these publications were called the department bulletin series, which ended with No. 1500.

YEARBOOK

The Yearbook of the department contains a general report of the operations of the department during the preceding calendar year, and articles of special interest and instruction to the farmers of the country. Selected articles in the Yearbook are reprinted in separate form. Available articles are listed in the subject list of publications.

PERIODICAL PUBLICATIONS

The following is a brief description of each periodical issued by the United States Department of Agriculture. The free mailing list is limited to not more than 2,000 addresses, outside of its employees and cooperators, for each periodical.

If an individual is engaged in work along agricultural lines and desires to be listed to receive any of these series, it will be necessary for him to furnish a description of nature and scope of the work with his application. The department will then notify him whether or not it can comply with the request.

The Superintendent of Documents, Government Printing Office, Washington, D. C., maintains a subscription list for all periodical publications, and in case a person can not be placed on the free list, he can, by sending the necessary remittance to that official, be placed on the subscription list.

AGRICULTURAL SITUATION

The Agricultural Situation, a 24-page bulletin issued monthly by the Bureau of Agricultural Economics, contains a brief general summary of current agricultural conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. Its general purpose is to furnish extension workers and others with a very concise picture of economic conditions in agriculture from month to month. Free distribution is limited to department employees, State agricultural college workers, cooperators, libraries, and the press. 25¢ a year, domestic; 40¢ a year, foreign.

CLIMATOLOGICAL DATA

Climatological Data contains complete weather statistics from 42 separate sections, corresponding, as a rule, to a State, and is issued monthly, with an annual summary. One section, 5¢ a month, 50¢ a year. Forty-two sections, 35¢ a month, \$4 a year, including annual summary. Annual summary for the 42 sections, 50¢.

CLIP SHEET

The Clip Sheet is made up of short, interesting stories concerning the work of the United States Department of Agriculture and the application of new ideas and discoveries in the field of agriculture. From 8 to 10 stories, varying from fillers of a few lines to articles of 200 to 300 words, are included in each weekly issue. Free distribution to newspapers and other interested publications and writers. (No subscription list.)

CROPS AND MARKETS

Crops and Markets contains statistics concerning crops and livestock estimates and market information. It contains reports on supplies, stocks, commercial movements, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand, both foreign and domestic. It is of particular interest to economists, statisticians, and persons whose business is affected by agricultural production and marketing. Free distribution is restricted to collaborators with the department. Issued monthly. 60¢ a year, domestic; 85¢ a year, foreign.

EXPERIMENT STATION RECORD

The Experiment Station Record is a technical review of the world's scientific literature pertaining to agriculture. It is issued in two volumes a year of 10 numbers each, and each volume contains about 3,500 abstracts of current research in the various fields of agriculture, together with brief notes on the progress of agricultural education and research and monthly editorials dealing with some phase of its advancement.

The Record is particularly designed for the use of research workers, teachers, extension specialists, and others desiring to keep abreast of the new information in the various fields of agriculture, and as a work of reference for ascertaining the status of research in these fields since it began publication in 1889. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar institutions, libraries, and exchanges. 10¢ a copy; 75¢ a volume, domestic; \$1.25 a volume, foreign.

EXTENSION SERVICE REVIEW

The Extension Service Review, a monthly magazine issued by the Extension Service, is published in the interests of workers and cooperators of the Department of Agriculture engaged in extension activities. It contains official statements and other information necessary to the performance of their duties and is issued free to them by law. Others may obtain copies of the Review from the Superintendent of Documents, Government Printing Office, Washington, D. C., by subscription at the rate of 50¢ a year, domestic (single copies, 5¢ each), and 75¢ foreign. Postage stamps will not be accepted in payment.

FOREST WORKER

The Forest Worker, a bimonthly magazine of 32 pages, is published in the interest of an interchange of information and ideas among State forestry organizations, extension foresters, forest schools, forestry associations, the United States Forest Service, and all organizations and individuals interested in forestry. It is devoted especially to news of State forestry work, forestry education and extension, and private forestry. It presents also news of the work of the Forest Service and of developments in the general field of forestry both in the United States and in foreign countries, and notices and reviews of books, bulletins, and magazine articles on forestry and allied subjects. Distribution

is free to certain Government officials and employees, State forestry and conservation officials, extension directors, forest schools, and forestry associations. 5¢ a copy, 25¢ a year, domestic; 7¢ a copy, 35¢ a year, foreign.

JOURNAL OF AGRICULTURAL RESEARCH

The Journal of Agricultural Research is a semi-monthly publication containing articles on technical agricultural research carried on by the United States Department of Agriculture or the State experiment stations, or both cooperatively. It is therefore of primary interest only to agricultural scientists and advanced students. Free distribution of the Journal is limited to certain libraries and to institutions or departments doing research work. 20¢ a copy, \$4 a year, domestic; \$5 a year, foreign.

Each article in the Journal is reprinted as a "separate." These reprints or separates are distributed free to those desiring them as long as the limited supply lasts. Anyone interested can have his name placed on a mailing list to receive notice of the issuance of articles on the subjects in which he is interested. Requests to be placed on this list should specify the subjects concerning which it is desired to keep informed.

MONTHLY LIST OF PUBLICATIONS

This list is issued approximately on the twentieth day of each month, and gives the titles and description of each publication issued during the preceding month. Anyone so desiring will be listed to receive it as issued free of charge.

MONTHLY WEATHER REVIEW

The Monthly Weather Review contains contributions from the research staff of the Weather Bureau and special contributions of a general character on meteorology and climatology; also climatological data for Weather Bureau stations. 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.

OFFICIAL RECORD

The Official Record contains official orders and miscellaneous information concerning the activities of the department, and such other matter as should be brought to the attention of employees and others who have to do with the department's work. Issued weekly. 50¢ a year, domestic; \$1.10 a year, foreign.

PUBLIC ROADS

Public Roads is a monthly periodical dealing with highway research. The results of investigations relating to the physical and economic problems of road building conducted by the Bureau of Public Roads and contributors outside of the bureau are made available to road builders through this medium. Free distribution is restricted to State and county officials actually engaged in planning or constructing public highways, instructors in highway engineering, and periodicals upon an exchange basis. 10¢ a copy, \$1 a year, domestic; \$1.50 a year, foreign.

SERVICE AND REGULATORY ANNOUNCEMENTS

Service and Regulatory Announcements contains such notices of judgment, decisions, and other information needed in the enforcement of regulatory acts. They are issued as necessary by the Bureau of Agricultural Economics, the Bureau of Animal Industry, the Bureau of Biological Survey, the Bureau of Dairy Industry, the Bureau of Plant Industry, the Plant Quarantine and Control Administration, and the Food, Drug, and Insecticide Administration. Free distribution is limited to public officials whose duties make it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements. The Bureau of Animal Industry issues one announcement each month, and the Superintendent of Documents carries a subscription list at 25¢ a year domestic and 40¢ a year foreign. Other bureaus issue announcements at irregular intervals. The price for each issue is 5¢ a copy.

SNOW AND ICE BULLETIN

The Snow and Ice Bulletin gives synopsis of snowfall and ice in United States, showing areas covered by snow, depth of snow, thickness of ice in rivers, etc. Of value to those interested in winter-wheat crop, ice dealers, and to manufacturers of articles, the sale of which is affected by presence or absence of snow and ice. Issued weekly for 18 weeks during winter season. 50¢ a season.

WEATHER MAPS

Daily weather map (Form C), first edition, shows weather conditions for United States and forecast for States east of Mississippi River, except Illinois, Wisconsin, Indiana, and upper and lower Michigan. Issued daily except Sundays and holidays at Washington, D. C. 25¢ per month.

Daily weather map (Form C), second edition, shows weather conditions for United States and forecast for all States. Issued daily at Washington, D. C. 30¢ per month, \$3 per year.

Daily weather map (Map DD) shows weather conditions and forecasts issued, except Sundays and holidays, at about 65 stations in United States. 20¢ per month, \$2 per year.

WEEKLY WEATHER AND CROP BULLETIN

The Weekly Weather and Crop Bulletin gives detailed weather conditions of the preceding week and their effect on the development of crops and farm operations; shows variation of temperature and rainfall from normal week, total rainfall for the season in comparison with normal, and discusses amount of sunshine and cloudiness. 50¢ a year.

SUBJECT LIST

AGRICULTURAL AND VISUAL EDUCATION, ACCOUNTING,
BUDGETING

Farmers' Bulletins:

- 511 F. Farm bookkeeping. 5¢.
- 572 F. System of farm cost accounting. 5¢.
- 586 F. Collection and preservation of plant material for use in the study of agriculture. 5¢.
- 782 F. Diary for farm accounts. 5¢.
- 1066 F. Determining the age of cattle by the teeth. 5¢.
- 1068 F. Judging beef cattle. 5¢.
- 1088 F. Selecting a farm. 5¢.
- 1139 F. Analyzing the farm business. 5¢.
- 1182 F. Farm inventories. 5¢.
- 1199 F. Judging sheep. 5¢.
- 1455 F. Fitting, showing, and judging hogs. 5¢.
- 1553 F. Planning family expenditures. 5¢.
- 1564 F. Farm budgeting. 5¢.
- 1601 F. Collection and preservation of insects for use in the study of agriculture. 5¢.
- 1614 F. Business records for poultry keepers. 5¢.

Department Bulletins:

- *258 D. Lessons in elementary agriculture for Alabama Schools by months. 5¢.
- *281 D. Correlating agriculture with public-school subjects in Northern States. 10¢.
- *355 D. Extension course in soils, for self-instructed classes in movable schools of agriculture. 10¢.
- *504 D. Theory of correlation as applied to farm-survey data on fattening baby beef. 5¢.
- *540 D. First-year course in home economics for southern agricultural schools. 10¢.
- *559 D. Accounting records for country creameries. 5¢.
- *592 D. Courses in secondary agriculture for southern schools, third and fourth years. 5¢.
- *784 D. Lessons on potatoes for elementary rural schools. 5¢.
- *811 D. System of bookkeeping for grain elevators. 20¢.

Department Circulars:

- *67 DC. How teachers may use Farmers' Bulletin 602, Clean milk, production and handling. 5¢.
- *107 DC. System of field and office records for county extension workers. 5¢.
- *155 DC. How teachers may use Farmers' Bulletin 1087, Beautifying the farmstead. 5¢.
- *156 DC. How teachers may use Farmers' Bulletin 1175, Better seed corn. 5¢.
- 157 DC. How teachers may use Farmers' Bulletin 1148, Cowpeas, culture and varieties. 5¢.
- 250 DC. Educational milk-for-health campaigns. 10¢.
- 371 DC. Use of the camera in studying the growth and development of dairy animals. 10¢.

Miscellaneous Circulars:

- 3 MC. Relation of agricultural education to farm organizations. 5¢.
- 21 MC. Posters prepared by school children in milk-for-health programs. 5¢.
- 90 MC. Score cards for judging clothing, selection and construction. 5¢.

Miscellaneous Publications:

- 3 MP. Editorial policy regarding Journal of Agricultural Research. 5¢.
- *36 MP. A history of agricultural education in the United States. \$1.00.
- 72 MP. Lantern slides and film strips of the U. S. Department of Agriculture. 5¢.
- 85 MP. Horticultural exhibitions. 10¢.
- 86 MP. Outlines for studies of mammalian life history. 5¢.
- 86 MP. The United States Department of Agriculture: Its growth, structure, and functions. 25¢.
- 91 MP. Film strips of the U. S. Department of Agriculture. 5¢.
- 105 MP. A graphic summary of American agriculture based largely on the census. 60¢.
- 111 MP. Motion pictures of the U. S. Department of Agriculture, 1931. 5¢.

Yearbook Separates:

- *607 Y. Agriculture in public high schools. 5¢.
- *635 Y. Story of the thermometer and its uses in agriculture. 5¢.
- *735 Y. Value of records of the farmer. 5¢.
- *736 Y. Teamwork between the farmer and his agent. 5¢.
- *832 Y. Science seeks the farmer. 5¢.
- 1101 Y. Agricultural maps. 5¢.
- 1141 Y. Exhibits for fairs give comprehensive farm information. 5¢.

Publications preceded by an asterisk (*) are not for free distribution.

United States Radio Farm School Lessons.

(A group of printed lessons prepared by specialists of the department, which supplement the United States Radio Farm School talks broadcast by various stations.)

R. F. S. Dairy Short Courses:

- No. 1. Dairy Herd Improvement.
- No. 2. Better Milk Production.
- No. 3. Feeding Dairy Cattle.
- No. 4. Dairy Herd Management.
- No. 5. Engineering, Barns and Equipment.

R. F. S. Livestock Short Courses:

- No. 1. Livestock Breeding.
- No. 2. Livestock Feeding.
- No. 3. Animal Health and Sanitation.

R. F. S. Poultry Short Courses:

- No. 1. Fall Poultry Management Problem.
- No. 2. Poultry Houses.
- No. 3. Management of Poultry Breeding Stock.
- No. 4. Exhibiting Fowls; Lice and Mites.
- No. 5. Incubation.
- No. 6. Common Poultry Diseases and Worms.

R. F. S. Farm Economics Series:

- No. 1. The Business of Farming.
- No. 2. Marketing.
- No. 3. Cooperative Marketing.

Miscellaneous:

- *Account book. Record of family expenditures (loose leaf) 50¢. Separate sheets, 1¢ each.

VISUAL EDUCATIONAL MATERIAL

(Maps, Charts, Photographs, etc.)

FOR SALE ONLY

Bureau Agricultural Economics:

- *Geography of Worlds Agriculture. \$1.
- Atlas of American Agriculture:
 - *Natural Vegetation. 50¢.
 - *Precipitation and Humidity. \$1.50.
 - *Cotton. 50¢.
 - *Rural Population and Organization. 50¢.
 - *Temperature, Sunshine, and Wind. \$1.60.
- *Graphic Summary of American Agriculture. 878 Y. 20¢.
- *Graphic Summary of World Agriculture. 713 Y. 15¢.
- *Economic charts.—Photographic prints, 8 by 10 inches, are furnished on order of any maps and charts issued by the Bureau of Agricultural Economics in current publications. A list is available upon request. Enlargements 30 by 40 inches for use as wall charts are made to order at 75¢ each on paper and \$1.25 each mounted on cloth.
- *Four charts showing wholesale and retail cuts of beef, veal, lamb, and fresh pork. 50¢ a set.

Bureau of Biological Survey:

- *Colored poster. "Vandals of the Night, While America Sleeps, Rats Destroy Entire Labor of 200,000 men and Pestilence Lurks in Their Wake." For use in encouraging control of rats in cooperative campaigns. 5¢.

Office of Cooperative Extension Work:

- *Educational charts on agriculture and home economics.—Copies of these charts 12 by 15 inches in size, can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at a price of 5 cents for single charts or any number up to five charts. Five charts are 5 cents. Each additional chart is 1 cent.

- 1.10. Dual purpose breeds of cattle.
- 1.1a. Beef breeds of cattle.
- 1.1b. Beef breeds of cattle.
- 1.2a. Dairy breeds of cattle.
- 1.2b. Dairy breeds of cattle.
- 1.176. Grades of beef, ribs and rounds.
- 1.3a. Breeds of hogs.
- 1.3b. Breeds of hogs.
- 1.33. Comparison of bacon and lard types of hogs.
- 1.40. Light breeds of horses.
- 1.402. Heavy breeds of horses.
- 1.501. Meat breeds of chickens.
- 1.502. General purpose breeds of chickens.
- 1.503. Egg breeds of chickens.
- 1.6. Breeds of sheep.
- 1.271. Milk and butter production.
- 1.2732. Cheese making.
- 1.2737. Cheeses.
- 1.682. More popular lamb cuts.
- 1.384. Pork loins and chops.

- 1.383. Bacon, bacon trimmings, and jowl bacon.
 - 1.382. Rough and trimmed ham and shoulder.
 - 1.381. Rough and trimmed pork cuts.
 - 1.683. Less known lamb cuts.
 - 1.681. Wholesale cuts of lamb.
 - 2.21. Corn and corn plants.
 - 2.22. Corn production.
 - 2.23. Pests of corn.
 - 2.24. (1) Harvesting corn.
 - 2.24. (2) Harvesting corn.
 - 2.25. The corn crop.
 - 2.26. Seed corn.
 - 2.51. Rice.
 - 2.52. Rice production.
 - 2.01. Four small grains.
 - 2.02. Production of small grains.
 - 2.03. Pests of small grains.
 - 2.04. Harvesting small grains.
 - 2.05. Grain marketing.
 - 3.01. Some fiber plants.
 - 3.20. Fiber flax.
 - 3.15. (1) Ginning and marketing cotton.
 - 3.15. (2) Cotton producing areas and distributing centers.
 - 3.11. The cotton plant.
 - 3.12. Cotton production.
 - 3.13. Pests and diseases of cotton.
 - 3.16. Cotton improvement.
 - 3.172a. Cotton manufacturing.
 - 3.172b. Cotton manufacturing.
 - 3.72. Wool production.
 - 3.71. Some grades of wool.
 - 8.31. Some types of weaves.
 - 8.32. Some points in fitting dresses and blouses with set-in sleeves.
 - 8.35. Some things to remember in judging fabrics.
 - 5.272. Dried fruit industry.
 - 5.72. Potato cultivation and planting.
 - 5.74. Potato spraying and harvesting.
 - 5.80. Sweetpotatoes.
 - 5.090. Storage of fruits and vegetables for home use—1.
 - 5.099. Storage of fruits and vegetables for home use—2.
 - 5.564. Dryness in citrus fruits.
 - 5.565. Appearance and quality of citrus fruit.
 - 5.79. Some causes of potato waste.
 - 6.12. Sugarcane.
 - 5.22. Sugar beet.
 - 3.32a. Cigar tobacco.
 - 3.32b. Flue-cured tobacco.
 - 3.91. Buckwheat and arrow root.
 - 7.78. Veneer and its uses in furniture construction.
 - 7.70. Furniture woods.
 - 7.77. How lumber may be cut.
 - 8.104. In days of plenty provide for the lean months.
 - 8.10. A well-planned farm food supply.
 - 8.21a. Good sources of vitamins A and D.
 - 8.21b. Good sources of vitamins B and C.
 - 8.04. Federal law demands truthful labels.
 - 8.271. Bone growth begins before birth.
 - 8.272. Poorly built bones go wrong.
 - 8.273. The teeth and their structure.—1. (Photographs.)
 - 8.273b. The teeth and their structure.—2. (Diagrams.)
 - 8.274. The development of the teeth illustrated by X rays of the jaws of children.
 - 8.275. The development of the teeth illustrated by X rays of the jaws.
 - 8.276. Premature loss of temporary teeth may deform the jaws.
 - 8.278. Sunshine is necessary for mothers as well as children.
- *Film strips in series covering a variety of agricultural and home economics subjects accompanied with supplementary notes for lecture use. A price list of available film strips may be obtained from the Office of Cooperative Extension Work.

Forest Service:

- *Colored posters, Prevent Forest Fires—It Pays, shows against a red background the blackened remains of forest trees after fire has passed through. Single copies 5¢.
- *Colored posters, Everybody Loses When Timber Burns, shows against a red background the blackened tree trunks left by a forest fire. Single copies 5¢.
- *Colored poster, Fire—The Outlaw, Don't Turn Him Loose, shows a large red wolf on a black background with a fringe of burned trees. Single copies 5¢.

Bureau of Home Economics:

- *Account book. Record of family expenditures. (loose leaf) 50¢. Separate sheets, 1 cent each.
- *Composition of food material. Set of 15 colored charts, 24 by 18 inches \$1 a set.
- *The convenient kitchen. Set of black and white charts, 16 by 20 inches. 50¢ per set.
- *Children's diets. Photographic prints 2 sets, 4 each in two sizes; set 1, White children; set 2, Negro children; set of 4, 72¢.
- *Food selection and meal planning. Set of 8 black and white charts, 18 by 23 inches. 50¢ per set.
- *100 Caloric portions of a few familiar foods; 1 chart 23 by 17 inches showing pen and ink sketches of 20 foods. 10¢
- *Household refrigeration. Set of 6 black and white charts, 16 by 20 inches. 20¢ per set.
- *Nutrition. Set of 10 black and white charts, 15 by 23 inches. 50¢ per set.

Office of Information:

- *Photographs of plants, animals, insects, and other subjects like or similar to illustrations in department publications. Office of Information, United States Department of Agriculture, 5 by 7, 9¢, 6½ by 8½, 12¢, 8 by 10, 18¢ each.
- *Photographs of weed seed found in commercial seed, 6½ by 8½. 15 in set, \$1.80.

Bureau of Public Roads:

- *Desk-size map showing the numbered system of United States Highways. 15¢.
- *Progress maps showing the status of improvement of the Federal-aid highway system in the 48 States. 112 sheets at 10¢ per sheet.

Weather Bureau:

Educational series (free to principals and teachers of high schools).—

- Cloud forms (12 half-tone plates).
- Wind barometer table (leaflet).
- The Weather Bureau (descriptive pamphlet.)
- Explanation of the Weather Map (leaflet).
- Sample copy of Washington Daily Weather Map.
- The educational series may be obtained by others, at 10¢ per set; 15¢ foreign.

- *Weather maps series.—(1) Barometer table, (2) Explanation of weather map and sample weather map, (3) Cloud chart, (4) The Weather Bureau, pamphlet descriptive of work of bureau. 10¢ per set.
- *Daily weather map (Form C), first edition, shows weather conditions for United States and forecast for States east of Mississippi River, except Illinois, Wisconsin, Indiana, and upper and lower Michigan. Issued daily except Sundays and holidays at Washington, D. C. 25¢ per month.
- *Daily weather map (Form C) second edition, shows weather conditions for United States and forecast for all States. Issued daily at Washington, D. C. 30¢ per month, \$3 per year.
- *Daily weather map (Map DD) shows weather conditions and forecasts issued, except Sundays and holidays, at about 65 stations in United States. 20¢ per month, \$2 per year.
- *Copies of the Daily weather maps can not be furnished in quantities unless the order is placed with the Superintendent of Documents in advance of issue and are sold at 1¢ each.
- *Climatic charts for United States; 12 in series; (1) normal annual precipitation; (2) average number of days with precipitation; (3) normal annual temperature; (4) normal January temperature; (5) normal July temperature; (6) highest temperature ever observed; (7) lowest temperature ever observed; (8) mean relative humidity (per cent) January, 8 a. m., 75th meridian time; (9) mean relative humidity (per cent) January, 8 p. m., 75th meridian time; (10) mean relative humidity (per cent), July, 8 a. m., 75th meridian time; (11) mean relative humidity (per cent), July, 8 p. m., 75th meridian time; (12) average minimum temperature (Fahrenheit), January. Single charts 5¢ each, 50¢ per set.
- *Blank Weather Maps for use in meteorological studies will be furnished on receipt of price, viz, Washington base maps (Form c, 19 by 24 inches), \$1 per 100; station base maps (Maps DD, 11 by 16 inches), 25¢ per 100. Blank maps, being of the nature of supplies, can not be furnished free. Draft or money order must be made payable to Disbursing Clerk, U. S. Department of Agriculture, Washington, D. C., and forwarded with order to U. S. Weather Bureau, Washington, D. C. When more than 50 blank Washington base maps (Form C, 19 by 24 inches) or more than 150 blank stations base maps (Maps DD, 11 by 16 inches) are ordered at one time shipment has to be made by express "collect" for express charges, and must be so authorized by purchaser. Full shipping instructions must accompany the order.

FOR FREE DISTRIBUTION

Bureau of Agricultural Economics:

Posters entitled "We sell U. S. Government Graded and Stamped Beef." Issued to meat retailers who are handling U. S. graded beef. Colored posters showing type animals of the official grades of live animals; "U. S. Grades for Slaughter Steers" and "U. S. Grades for Heifers."

Colored poster "U. S. Grades for Cannery Tomatoes," showing types of three grades.

Colored charts showing United States standards and grades for eggs.

This brings out differences in egg equality as seen before the candle.

Bureau of Animal Industry:

Pictures of improved livestock: (1) Judging dairy cows at a community picnic; (2) Purebred Percheron stallion; (3) Southdown sheep for mutton production; (4) Little pigs; (5) Flock of White Wyandottes; (6) Herd of accredited dairy cattle; (7) Angora goats; (8) Morgan horse; (9) Club boy with beef cattle; (10) Mules.

Posters showing the value of using good sires in breeding work: (1) Value of purebreds; (2) Ten points in better feeding; (3) For the children's sake; (4) Which way is your livestock going? (5) Purebred sires and herd improvement; (6) Standardbred poultry pays best; (7) 48 per cent more money from purebreds; (8) Use more purebred sires (sheep); (9) Mold your animals; (10) Well-bred cattle yield most meat (steers).

Posters showing causes or symptoms of livestock diseases, methods of prevention, and eradication: Scabies, 1 poster; hog cholera, 2; tuberculosis, 3.

Map of the United States showing extent of bovine tuberculosis.

Poster illustrating and describing life cycle of common sheep liver fluke.

Poster showing roundworm's journey through the hog.

Poster showing the effect of the cattle tick on the appearance of the animal.

Posters on eggs and poultry: (1) Produce infertile eggs! (2) Do you know a good egg? (3) Hatch early—why it pays; and (4) Attend poultry shows.

Colored poster showing how to buy good beef.

Poster, Take no Chances with Hog Cholera.

Poster, Free Your Swine and Poultry from Tuberculosis: Give the Old Hen a Ride.

Bureau of Entomology:

Help fight the European corn borer.

Posters showing insect pests and their work and method of control;

(1) Grasshopper; (2) Potato Beetle; (3) Wheat Joint Worm; (4) Chalcis-fly; (5) Hessian fly; (6) Spray Potato Fields.

Forest Service:

Small map (in colors) showing national forests and related reservations in United States.

Small map, showing in green the natural forest regions of the United States.

Colored poster, Pines Pay, prepared for distribution in the South, shows the interior of a long-leaf pine forest.

Colored poster, Pines Pay, prepared for distribution in the North, shows the interior of white pine forest.

Colored poster, Good Farm Practice—Keep Stock Out of Woods—It Pays.

Colored poster, Prevent Forest Fires—It Pays.

Colored poster, Everybody Loses When Timber Burns.

Colored poster, Fire—The Outlaw—Don't Let Him Loose on the Forests.

Poster, The Farm Woods a Saving Bank Paying Interest. Prepared for distribution in the North.

Poster, The Farm Woods a Saving Bank Paying Interest. Prepared for distribution in the South.

Poster, The Unburned Woods—Nature's Timber Treasure House—Home of Life and Beauty.

Bureau of Plant Industry:

Colored posters showing life cycles of black stem rust and its host plants, wheat and common barberry.

Colored posters of white pine blister rust for schools in white pine States, New England, New Jersey, New York, Pennsylvania, Michigan, Wisconsin, Minnesota.

Bureau of Public Roads:

Information series.—Drawings and mimeographed pamphlets describing the methods of building various types of farm structures and conveniences such as windmills, electric lighting plants, other lighting systems, well-drilling machinery, garbage and refuse disposal, clearing land, and farm buildings of various kinds.

Desk size map showing the Federal-aid highway system.

MATERIAL LENT

The following material is grouped according to bureaus and is lent to persons or organizations who will pay transportation charges. Sizes, weights, and any other information concerning this material will be furnished on request by the bureaus issuing it.

Bureau of Animal Industry:

Exhibits, 15 in number, dealing with tuberculosis in livestock and consisting of lantern slides, illustrated panels, specimens of tissues, colored maps and charts mounted on cloth.

Exhibits on hog-cholera control, two in number, both containing illustrated panels and one containing, in addition, six specimens of hog cholera and six of foot-and-mouth disease.

Exhibits, seven in number, on the following livestock parasites, these exhibits consisting of illustrated panels and charts mounted on cloth: Stomach worms and external parasites of sheep, roundworms of swine, and method of treating hookworms in dogs.

Exhibits on improving livestock: (Pannels and models) (1) Better feeding; (2) Two steers on the same trail (good and common steers from range to retail beef); (3) Know good beef; (4) Experimental swine equipment; (5) Health sticks to clean chicks; (6) Better sires; Sheep equipment. (Charts mounted on cloth): (1) Poultry management, 7 charts; (2) Flushing ewes, 1.

Exhibit on meat inspection, consisting of illustrated panels and specimens of tissues.

Forest Service:

Set of colored lantern slides accompanied by lecture outlines and covering 14 subjects.

Traveling school exhibits, Our Forests, What they Mean to Us. (Sets of 48 enlarged photographs showing forests of the United States, how they are used and how they may be preserved; 12 series of 4 pictures each.)

Traveling school exhibits, Forestry in Nature Study. (Sets of 48 enlarged photographs suitable for use in nature-study work; 12 series of 4 pictures each.)

Traveling school exhibits, Farm Woodlands. (Set of 28 enlarged photographs on management of farm woodlands; 7 series of 4 pictures each.)

Set of wood samples, showing 30 representative American woods prepared for educational purposes and loaned to teachers for short periods.

Exhibit material of a general nature is available for the use of high schools and colleges, in the form of colored panels, both large and small, dealing with woodland improvement, forest fires, lumbering, the use of the national forests, and studies of long-leaf, shortleaf, loblolly, slash, Norway, and white pines.

Colored bromides and transparencies on turpentine, planting, second growth, forest-fire equipment, scenery, forest fires, erosion, denuded areas, and slogans for care with fire.

ALFALFA

Farmers' Bulletins:

- 944 F. Garden webworm in alfalfa fields.
- 982 F. Green clover worm in alfalfa fields. 5¢.
- 1094 F. Alfalfa caterpillar. 5¢.
- 1229 F. Utilization of alfalfa. 5¢.
- 1283 F. How to grow alfalfa. 5¢.
- 1467 F. Commercial varieties of alfalfa. 5¢.
- 1528 F. Control of alfalfa weevil. 5¢.
- 1539 F. High-grade alfalfa hay: Methods of producing, baling, and loading for market. 5¢.
- 1630 F. Irrigation practices in growing alfalfa. 5¢.
- 1642 F. Chalcid control in alfalfa—seed production. 5¢.

Department Bulletins:

- *889 D. Clover stem-borer as an alfalfa pest. 5¢.
- *1087 D. Alfalfa root studies. 10¢.
- 1418 D. Fertilizer experiments with alfalfa conducted at United States Yuma Field Station, Bard, Calif., 1919 to 1925. 5¢.
- 1424 D. Comparative shrinkage in weight of alfalfa cured with leaves attached and removed. 5¢.

Technical Bulletins:

- 235 T. Quality of alfalfa hay in relation to curing practice. 10¢.

Department Circulars:

- *93 DC. Development of the Peruvian alfalfa industry in United States. 5¢.
- 297 DC. Eelworm disease; a menace to alfalfa in America. 5¢.
- *301 DC. Introduction of parasites of alfalfa weevil into United States. 5¢.
- *425. DC. Some observations on some alfalfa root troubles. 5¢.

Circulars:

- 39 C. Bacterial wilt and winter injury of alfalfa. 5¢.

Yearbook Separates:

- *1098 Y. Alfalfa and red clover yellowed by leaf-hopper attack. 5¢.

Publications preceded by an asterisk (*) are not for free distribution

ANIMAL BREEDING

(See also under *Fur-bearing Animals, name of animal*)**Farmers' Bulletins:**

- 525 F. Raising guinea pigs. 5¢.
1167 F. Essentials of animal breeding. 5¢.

Department Bulletins:

- 905 D. Principles of livestock breeding. 15¢.
*1121 D. Effects of inbreeding and crossbreeding on guinea pigs: 3.
Crosses between highly inbred families. 15¢.
1372 D. Transmitting ability of 23 Holstein-Friesian sires. 5¢.

Technical Bulletins:

- 103 T. The persistence of differentiation among inbred families of guinea pigs. 10¢.
222 T. Genetic growth differentiation in guinea pigs. 10¢.

Department Circulars:

- 368 DC. Better cows from better sires, study of cowtesting association records of dams and their daughters. 5¢.

Miscellaneous Publications:

- 34 MP. United States Animal Husbandry Experiment Farm, Beltsville, Md. 10¢.

Yearbook Separates:

- 985 Y. Bulls bred pure replace scrubs in more counties. 5¢.
990 Y. Animal husbandry cooperation yields results in research. 5¢.

APPLES

Farmers' Bulletins:

- 622 F. Apple-tree tent caterpillar. 5¢.
675 F. Roundhead apple-tree borer. 5¢.
938 F. Apple bitter rot and its control. 5¢.
1065 F. Flat-headed apple-tree borer. 5¢.
1080 F. Preparation of barreled apples for market. 5¢.
1120 F. Control of apple powdery mildew. 5¢.
1160 F. Diseases of apples in storage. 5¢.
1204 F. Northwestern apple-packing houses. 5¢.
1270 F. Important apple insects. 15¢.
1284 F. Apple-orchard renovation. 5¢.
1360 F. Apple growing east of the Mississippi. 10¢.
1380 F. Apple scald and its control. 5¢.
1457 F. Packing apples in boxes. 5¢.
1478 F. Apple scab. 5¢.
1479 F. Apple blotch. 5¢.

Department Bulletins:

- *500 D. Cost of producing apples in western Colorado, detailed study made in 1914-15. 10¢.
*587 D. Handling and storage of apples in Pacific Northwest. 15¢.
*684 D. Sources of apple bitter rot infections. 10¢.
*851 D. Cost of producing apples in five counties in western New York, 1910-1915. 10¢.
*1006 D. Accounting records for sampling apples by weight. 5¢.
*1104 D. Internal browning of the Yellow Newtown apple. 10¢.
1166 D. Apple by-products as stock foods. 5¢.
*1253 D. Diseases of apples on the market. 5¢.
1406 D. Ripening, storage, and handling of apples. 20¢.
1415 D. Marketing western boxed apples. 20¢.
1416 D. Marketing barreled apples. 20¢.
1448 D. Picking maturity of apples in relation to storage. 5¢.
1455 D. Incomes from farming and cost of apple production in Shenandoah Valley and Frederick Co., Va. 10¢.

Technical Bulletins:

- 54 T. Factors influencing yield of apples in Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
66 T. Apple maggot. 15¢.
234 T. Marketing apples grown in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
245 T. Arsenical and other fruit injuries of apples resulting from washing operations. 10¢.
263 T. The leaf hoppers attacking apples in the Ozarks. 10¢.

Department Circulars:

- 376 DC. Method for control of crown gall in apple nursery. 5¢.
*396 DC. Control of apple scald with shredded oiled paper. 5¢.
413 DC. Extent and causes of rejections of boxed apples from State of Washington, seasons 1922 to 1925. 5¢.

Circulars:

- 91 C. Market supplies and prices of apples. 15¢.
95 C. Subsoil an important factor in the growth of apples in the Ozarks. 10¢.

Yearbook Separates:

- 941 Y. Apple trees attacked by cedar rust. 5¢.
*1017 Y. Apples and pears are often injured when boxed in Douglas fir. 5¢.

BEANS

Farmers' Bulletins:

- 289 F. Beans. 5¢.
 *969 F. Horse beans. 5¢.
 1276 F. The velvet bean. 5¢.
 1509 F. Bean growing: E, Wash., E. Oregon, N. Idaho. 5¢.
 1520 F. Soybeans, culture and varieties. 5¢.
 1605 F. Soybean hay and seed production. 5¢.
 1617 F. Soybean utilization. 5¢.
 1624 F. Mexican bean beetle in the East and its control. 5¢.

Department Bulletins:

- *843 D. The bean ladybird. 10¢.
 *1194 D. Chemical and structural study of mesquite, carob, and honey locust beans. 5¢.

Technical Bulletins:

- 186 T. Bacterial blight of beans caused by *Bacterium phaseoli*. 10¢.

Department Circulars:

- *92 DC. The jack bean. 5¢.

Miscellaneous Publications:

- 16 MP. Save the beans (from deterioration in transit). 5¢.

BEES AND HONEY

Farmers' Bulletins:

- 447 F. Bees. 5¢.
 653 F. Honey and its uses in the home. 5¢.
 695 F. Outdoor wintering of bees. 5¢.
 961 F. Transferring bees to modern hives. 5¢.
 975 F. Control of European foulbrood. 5¢.
 1012 F. Preparation of bees for outdoor wintering. 5¢.
 1014 F. Wintering bees in cellars. 5¢.
 1039 F. Comb-honey production. 5¢.
 *1084 F. American foulbrood control. 5¢.
 1198 F. Swarm control. 5¢.
 1215 F. Beekeeping in the clover region. 5¢.
 1216 F. Beekeeping in the buckwheat region. 5¢.
 1222 F. Beekeeping in the tulip-tree region. 5¢.

Department Bulletins:

- *804 D. Study of behavior of bees in colonies affected by European foulbrood. 5¢.
 *809 D. American foulbrood. 15¢.
 *810 D. European foulbrood. 10¢.
 *988 D. Heat production of honeybees in winter. 5¢.
 *1328 D. Flight activities of the honeybee. 10¢.
 *1339 D. Effect of weather upon change in weight of colony of bees during honey flow. 10¢.
 *1349 D. Brood-rearing cycle of the honeybee. 10¢.
 *1364 D. Effects on honeybees of spraying fruit trees with arsenicals. 5¢.

Technical Bulletin:

- 149 T. Fungus disease of the honeybee. 15¢.

Department Circulars:

- 218 DC. Occurrence of diseases of adult bees, I. 5¢.
 222 DC. Insulating value of commercial double-walled beehives. 5¢.
 284 DC. Sterilization of American foulbrood combs. 5¢.
 287 DC. Occurrence of diseases of adult bees, II. 5¢.
 *334 DC. Bee-louse, *Braula coeca*, in United States. 5¢.

Circulars:

- 24 C. United States grades, color standards, and packing requirements for honey, recommended by Department of Agriculture. 5¢.

Miscellaneous:

- *Color standards for grades of comb honey. Poster, 12 by 16 inches. 15¢.

BERRIES

(See also under Diseases, Insects, Marketing)

Farmers' Bulletins:

- 860 F. Cranberry-insect problems, suggestions for solving them. 5¢.
 887 F. Raspberry culture. 5¢.
 901 F. Everbearing strawberries. 5¢.
 998 F. Culture of Logan blackberry and related varieties. 5¢.
 1026 F. Strawberry culture, So. Atlantic and Gulf coast regions. 5¢.
 1027 F. Strawberry culture, western United States. 5¢.
 1028 F. Strawberry culture, eastern United States. 5¢.
 1043 F. Strawberry varieties. 5¢.
 1398 F. Currants and gooseberries: Their culture and relation to white-pine blister rust. 10¢.
 1399 F. Blackberry growing. 5¢.
 1400 F. Establishing cranberry fields. 5¢.
 1401 F. Managing cranberry fields. 5¢.

Farmers' Bulletins—Continued.

- 1402 F. Cranberry harvesting and handling. 5¢.
 1403 F. Dewberry growing. 5¢.
 1458 F. Strawberry diseases. 5¢.
 1488 F. Diseases of raspberries and blackberries. 10¢.
 1560 F. Preparing strawberries for market. 5¢.

Department Bulletins:

- 263 D. Cranberry rootworm. 5¢.
 274 D. Factors governing successful shipment of red raspberries from Puyallup Valley. 10¢.
 *444 D. False blossom of cultivated cranberry. 5¢.
 *531 D. Rhizopus rot of strawberries in transit. 5¢.
 *554 D. Cranberry girdler. 10¢.
 *714 D. Spoilage of cranberries after harvest. 5¢.
 *960 D. Relation of water raking to keeping quality of cranberries. 5¢.
 974 D. Directions for blueberry culture, 1921. 30¢.
 *1032 D. The blackhead fireworm of cranberry on Pacific coast. 15¢.
 1434 D. Cranberry disease investigations on Pacific coast. 5¢.

Technical Bulletins:

- 122 T. Development of runners and runner plants in the strawberry. 10¢.
 180 T. Origin and distribution of the commercial strawberry crop. 25¢.
 258 T. Fungous diseases of the cultivated cranberry. 25¢.
 261 T. Longevity and germination of seeds of *Ribes* [currants and gooseberries], particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.

Department Circulars:

- 227 DC. Eastern blue-stem of black raspberry. 5¢.
 *309 DC. Spraying strawberries for the control of fruit rots. 5¢.
 320 DC. The Van Fleet raspberry, new hybrid variety. 5¢.
 402 DC. Diseases of strawberries on the market. 5¢.

Circulars:

- 93 C. The Blakemore strawberry. 10¢.
 123 C. A comparative study of dusting by means of airplane and ground machine for the control of the blueberry maggot. 5¢.
 147 C. The spread of cranberry false blossom in the United States. 5¢.
 171 C. The Bellmar, Southland, and Redheart strawberries. 5¢.
 174 C. Field observations on strawberry dwarf. 5¢.

Yearbook Separates:

- 995 Y. Dewberry of Young variety has excellent qualities. 5¢.
 996 Y. Raspberry of Van Fleet variety thrives in South. 5¢.
 1018 Y. Cranberries used in trial forecasts as to keeping quality. 5¢.
 1239 Y. Strawberry weevil may be controlled by using sulphur and arsenate. 5¢.

BIBLIOGRAPHIES**Department Bulletins:**

- *1199 D. List of bulletins of agricultural experiment stations in United States from their establishment to the end of 1920. 20¢.
 Supplement 2. List of bulletins for calendar years 1923 and 1924. 10¢.
 Supplement 3. List of bulletins for calendar years 1925 and 1926. 10¢.
 1314 D. Bibliography relating to soil alkalies. 10¢.
 1330 D. Abbreviations employed in Experiment Station Record for titles of periodicals. 20¢.

Department Circulars:

- 187 DC. List of serials currently received in library of Department of Agriculture, January 1, 1922. 25¢.

Miscellaneous Circulars:

- 35 MC. Bibliography on marketing of agricultural products. 10¢.
 46 MC. Bibliography of the European corn borer. 10¢.

Miscellaneous Publications:

- 9 MP. List of publications of Department of Agriculture from January, 1901, to December, 1925, compiled by comparison with originals. 25¢.
 60 MP. List of available publications of the United States Department of Agriculture, December, 1930. 10¢.
 62 MP. Bibliography on the relation of clothing to health. 25¢.
 64 MP. Directory of the field activities of the Bureau of Plant Industry. 15¢.
 *65 MP. List of bulletins of the agricultural experiment stations for the calendar years 1927-28. Supplement 4 to D. B. 1199. 15¢.
 67 MP. Workers in subjects pertaining to agriculture in State agriculture colleges and experiment stations, 1929-30. 20¢.
 78 MP. An annotated list of literature references on garment sizes and body measurements. 10¢.

Miscellaneous Publications—Continued.

- 84 MP. A bibliography of the history of agriculture in the United States. 1930. 45¢.
 88 MP. The United States Department of Agriculture: Its growth, structure, and functions. 25¢.
 89 MP. Classified list of projects of the agricultural experiment stations, 1930. 25¢.
 110 MP. Glossary of botanical terms commonly used in range research. 15¢.
 111 MP. Motion pictures of the U. S. Department of Agriculture. 1931. 5¢.
 116 MP. Rural standards of living, a selected bibliography. 15¢.
 117 MP. Bibliography of ethylene dichloride.
 118 MP. The influence of weather on crops; 1900–1930. A selected and annotated bibliography. 40¢.
 125 MP. Bibliography relating to farm structures. 10¢.
 129 MP. Directory of field activities of the Bureau of Plant Industry, December, 1931. 20¢.

BIRDS*(See also under Game and Game Laws)***Farmers' Bulletins:**

- *493 F. English sparrow as a pest. 5¢.
 497 F. Game, aquatic, and rapacious birds in relation to man. 5¢.
 506 F. Food of well-known birds. 5¢.
 621 F. Attracting birds in northeastern United States. 5¢.
 630 F. Birds useful to the farmer. 5¢.
 684 F. Squab raising. 5¢.
 755 F. Common birds of southeastern United States. 5¢.
 760 F. Attracting birds in northwestern United States. 5¢.
 844 F. Attracting birds, Middle Atlantic States. 5¢.
 912 F. Attracting birds, East Central States. 5¢.
 1102 F. Crow in relation to agriculture. 5¢.
 1327 F. Canaries, care and management. 5¢.
 1373 F. Homing pigeons, their training. 5¢.
 1456 F. Homes for birds. 5¢.
 *1521 F. Propagation of game birds. 10¢.
 1571 F. European starling in United States. 5¢.
 1612 F. Propagation of aquatic game birds. 10¢.
 1613 F. Propagation of upland game birds. 10¢.
 1644 F. Local Bird Refuges. 5¢.
 1682 F. Usefulness of birds on the farm. 5¢.

Department Bulletins:

- 128 D. Distribution and migration of North American rails and their allies. 10¢.
 *185 D. Bird migration. 10¢.
 *619 D. Food habits of swallows, family of valuable native birds. 5¢.
 *1165 D. Report on bird censuses in United States, 1916–1920. 5¢.
 1196 D. Food and economic relations of North American grebes. 5¢.
 *1249 D. Food habits of some winter bird visitants. 10¢.
 *1268 D. Returns from banded birds, 1920 to 1923. 10¢.
 *1355 D. Food habits of the vireos, family of insectivorous birds. 10¢.
 1359 D. Food of American phalaropes, avocets, and stilts. 10¢.

Technical Bulletins:

- 24 T. Magpie in relation to agriculture. 10¢.
 26 T. Our migrant shorebirds in southern South America. 5¢.
 *32 T. Returns from banded birds, 1923 to 1926. 20¢.
 49 T. Nematodes of pathological significance found in some economically important birds in North America. 5¢.
 61 T. Wild birds introduced or transplanted in North America. 10¢.
 227 T. Developmental stages of some nematodes of the Spiruroidea parasitic in poultry and game birds. 15¢.

Miscellaneous Circulars:

- 13 MC. Local names of migratory game birds. 25¢.
 *18 MC. Instructions for banding birds. 10¢.

Circulars:

- 96 C. Game birds suitable for naturalization in the United States. 10¢.
 118 C. Calculating waterfowl abundance on the basis of banding returns. 5¢.

Miscellaneous Publications:

- 58 MP. Manual for bird banders. 30¢.
 127 MP. Peafowl and their care. 5¢.

Leaflets:

- 36 L. Gourds for bird houses. 5¢.
 61 L. English sparrow control. 5¢.

Yearbook Separates:

- *785 Y. Federal protection of migratory birds. 5¢.
 843 Y. Farm help from the birds. 5¢.

Miscellaneous:

Biological Survey Circular 61. Hawks and owls from the standpoint of the farmer. 5¢.

BROOMCORN**Farmers' Bulletins:**

1631 F. Broomcorn growing and handling. 10¢.

Department Bulletins:

*836 D. Broomcorn experiments at Woodward, Okla. 1920. 10¢.

*1019 D. Marketing broomcorn. 10¢.

Technical Bulletins:

51 T. Broomcorn experiments at United States Dry-land Field Station, Woodward, Okla. 1928. 10¢.

Yearbook Separates:

1060 Y. Broomcorn harvesting at milk stage produces best brush. 5¢.

CABBAGE**Farmers' Bulletins:**

433 F. Cabbage. 5¢.

1061 F. Harlequin cabbage bug and its control. 5¢.

1423 F. Preparing cabbage for market. 5¢.

1439 F. Diseases of cabbage and related plants. 10¢.

1461 F. The common cabbage worm and its control. 5¢.

Department Bulletins:

*902 D. The western cabbage flea beetle. 5¢.

*1029 D. Seed treatment and rainfall in relation to the control of cabbage blackleg. 10¢.

*1242 D. Marketing cabbage. 15¢.

Department Circulars:

311 DC. Cabbage-seed treatment. 5¢.

CANNING, DRYING, PICKLING, AND PRESERVING (COMMERCIAL)**Department Bulletins:**

*196 D. Methods followed in commercial canning of foods. 10¢.

349 D. Raisin industry. 10¢.

956 D. Study of factors affecting temperature changes in the container during canning of fruits and vegetables. 15¢.

*1022 D. Relation of initial temperature to pressure, vacuum, and temperature changes in the container during canning operations. 10¢.

1055 D. Methods of manufacturing potato chips. 5¢.

1141 D. Evaporation of fruits. 10¢.

1265 D. Scalding, precooking, and chilling, as preliminary canning operations. 10¢.

*1323 D. Citrus pectin. 5¢.

*1335 D. Commercial dehydration of fruits and vegetables. 10¢.

Technical Bulletins:

84 T. Preservation of peaches for use in manufacture of ice cream. 5¢.

97 T. Relation of kernel density to table and canning quality in different varieties of maize. 5¢.

148 T. The frozen pack method of preserving berries in the Pacific Northwest. 10¢.

193 T. Experiments in processing and storing Deglet Noor dates in California. 15¢.

196 T. The canning quality of certain commercially important eastern peaches. 10¢.

242 T. Biology of the Indian-meal moth on dried fruits in California. 5¢.

Circulars:

35 C. Commercial production of sauerkraut. 10¢.

Yearbook Separates:

1145 Y. Canning industry's output grows under food and drug act. 5¢.

1214 Y. Fruit juices preserved by various methods find steadily growing market. 5¢.

1222 Y. Fruit products preserved successfully by freezing with solid carbon dioxide. 5¢.

CANNING, DRYING, PICKLING, AND PRESERVING (HOME)**Farmers' Bulletins:**

900 F. Homemade fruit butters. 5¢.

984 F. Farm and home drying of fruits and vegetables. 5¢.

1438 F. Making fermented pickles. 5¢.

1471 F. Canning fruits and vegetables. 5¢.

Department Circulars:

254 DC. Homemade apple and citrus pectin extracts and their use in jelly making. 5¢.

Circulars:

13 C. Curing and preserving citron. 5¢.

Publications preceded by an asterisk (*) are not for free distribution.

CATTLE, BEEF**Farmers' Bulletins:**

- 612 F. Breeds of beef cattle. 5¢.
- 1068 F. Judging beef cattle. 5¢.
- 1135 F. The beef calf, its growth and development. 5¢.
- 1395 F. Beef-cattle production in the range area. 10¢.
- 1415 F. Beef on the farm, slaughtering, cutting, curing. 5¢.
- 1549 F. Feeding cattle for beef. 5¢.
- 1584 F. Feed-lot and ranch equipment for beef cattle. 5¢.
- 1592 F. Beef production on the farm. 5¢.
- 1600 F. Dehorning, castrating, branding, and marking beef cattle. 5¢.

Department Bulletins:

- *25 D. Shrinkage in weight of beef cattle in transit. 10¢.
- 73 D. Raising and fattening beef calves in Alabama. 5¢.
- *588 D. Increased cattle production on southwestern ranges. 15¢.
- *628 D. Wintering and fattening beef cattle in North Carolina. 10¢.
- *631 D. Five years' calf-feeding work in Alabama and Mississippi. 10¢.
- *761 D. Comparison of concentrates for fattening steers in South. 5¢.
- *762 D. Comparison of roughages for fattening steers in South. 5¢.
- *827 D. Cut-over pine lands of the South for beef-cattle production. 15¢.
- 870 D. Effect of winter rations on pasture gains of yearling steers. 5¢.
- *954 D. Wintering and summer fattening of steers in North Carolina. 5¢.
- *1251 D. Effect of winter rations on pasture gains of 2-year-old steers. 10¢.
- 1318 D. Steer feeding in the sugarcane belt. 5¢.
- *1333 D. Fattening steers on velvetbeans. 10¢.
- 1394 D. Normal growth of range cattle. 5¢.
- *1431 D. Effect of winter rations on gains of calves marketed as 3-year-old steers. 5¢.

Technical Bulletins:

- 23 T. Costs and methods of fattening beef cattle in the Corn Belt, 1919-1923. 20¢.
- 30 T. Fattening steers on dry-land crops of the Southwest. 5¢.
- 192 T. Wintering steers in the North-Central Great Plains. 5¢.
- 203 T. Beef production from purebred, grade, and native calves. 5¢.
- 208 T. Beef from calves fed grain before and after weaning. 10¢.
- 217 T. Beef production and quality as affected by grade of steers and feeding grain supplement on grass. 15¢.
- 237 T. Economic factors affecting the beef cattle industry of Virginia. 10¢.

Department Circulars:

- 166 DC. Influence of winter rations on growth of steers on pasture. 5¢.
- 408 DC. Wintering beef cattle in Appalachian region. 5¢.

Circulars:

- 28 C. Market classes and grades of calves and vealers. 10¢.
- 62 C. The utilization of browse forage as summer range for cattle in southwestern Utah. 10¢.
- 65 C. Steer-feeding experiments in the sugarcane belt. 5¢.

Miscellaneous Circulars:

- 74 MC. Grading up beef cattle at Sni-A-Bar Farms. 10¢.

Yearbook Separates:

- 627 Y. Production of beef in the South. 10¢.
- 749 Y. Growth of beef-cattle industry in the South. 5¢.
- 874 Y. Our beef supply. 20¢.
- 1159 Y. Beef cattle tests show profits are increased by feeding grain with grass. 5¢.

CATTLE, DAIRY**Farmers' Bulletins:**

- 1412 F. Care and management of dairy bulls. 5¢.
- 1422 F. Udder diseases of dairy cows. 5¢.
- 1443 F. Dairy cattle breeds. 5¢.
- 1470 F. Care and management of dairy cows. 10¢.
- 1532 F. Dairy-herd improvement. 5¢.
- 1573 F. Legume hays for milk production. 5¢.
- 1604 F. Dairy-herd improvement associations and stories the records tell. 5¢.
- 1626 F. Feeding dairy cows. 5¢.

Department Bulletins:

- *945 D. Influence of calcium and phosphorus in the feed on the milk yield of dairy cows. 5¢.
- *1069 D. Relation of production to income from dairy cows. 5¢.
- *1071 D. Influence of season of freshening on production and income from dairy cows. 5¢.
- *1281 D. Relative utilization of energy in milk production and body increase of dairy cows. 10¢.

Department Bulletins—Continued.

- *1352 D. Effect of age and development on butterfat production of register-of-merit Jersey and advanced-register Guernsey cattle. 5¢.
- 1372 D. Transmitting ability of 23 Holstein-Friesian sires. 5¢.
- Technical Bulletins:**
- 278 T. Relation of the method of watering dairy cows to their water consumption and milk production. 5¢.
- Department Circulars:**
- *7 DC. Trend of the dairy-cattle industry in the United States and other countries. 5¢.
- 371 DC. Use of camera in studying and development of dairy animals. 10¢.

Circulars:

- 1 C. Testing cows for production every other month. 5¢.
- 3 C. Proved dairy sires. 5¢.
- 6 C. Purebred dairy-sire introduction. 10¢.
- 26 C. Comparison of purebred and grade dairy cows. 5¢.
- 114 C. Within the breed the big dairy cows excel. 5¢.
- 180 C. The production of dairy cows as affected by frequency and regularity of milking and feeding.

Miscellaneous Circulars:

- 99 MC. Judging dairy cattle. 10¢.

Leaflets:

- 7 L. Feeding dairy cows in summer. 5¢.
- 10 L. Care of the dairy cow at calving time. 5¢.
- 14 L. Raising the dairy heifer. 5¢.
- 16 L. Purebred dairy sires. 5¢.
- 20 L. Care of the dairy calf. 5¢.

Yearbook Separates:

- 1247 Y. Milk secretion shown by experiments to be a continuous process. 5¢.

Miscellaneous:

- Your future herd. (D. D. E. 10).

CATTLE, MISCELLANEOUS**Farmers' Bulletins:**

- 909 F. Cattle-lice eradication. 5¢.
- 1017 F. Cattle-scab control and eradication. 5¢.
- 1066 F. Determining the age of cattle by the teeth. 5¢.
- 1536 F. Infectious abortion of cattle. 5¢.
- 1596 F. Cattle grubs or heel flies with suggestions for their control. 5¢.
- 1625 F. Tick fever. 5¢.

Department Bulletins:

- *1031 D. Range and cattle management during drought. 20¢.
- *1358 D. Range watering places in Southwest. 15¢.
- 1464 D. Market classes and grades of cattle. 25¢.

Technical Bulletins:

- 45 T. Study of ranch organization and methods of range-cattle production in Northern Great Plains Region. 20¢.

Miscellaneous Circulars:

- 12 MC. A handbook for better feeding of livestock. 5¢.
- 26 MC. The cow tester's handbook. 5¢.

Circulars:

- 62 C. The utilization of browse forage as summer range for cattle in southwestern Utah. 10¢.

Miscellaneous Publications:

- 2 MP. Story of the cattle-fever tick; what every southern child should know about cattle ticks. 10¢.

Leaflets:

- 51 L. Improving cattle in areas freed of ticks. 5¢.
- 75 L. Warts on cattle. 5¢.

Yearbook Separates:

- 764 Y. Cattle loans and the value to investors. 5¢.
- 1160 Y. Cattle ticks can be eradicated by system of vacating pastures. 5¢.
- 1161 Y. Cattle tuberculosis in range areas is yielding to eradication methods. 5¢.
- 1174 Y. Tuberculosis of cattle practically eradicated from State of Michigan. 5¢.

Miscellaneous:

- *Special report on diseases of cattle. 1924. \$1.
- B. A. I. Circular 68. Diseases of the stomach and bowels of cattle. 5¢.

CITRUS FRUITS**Farmers' Bulletins:**

- 794 F. Citrus fruit improvement. 5¢.
- 933 F. Spraying for control of insects and mites attacking citrus trees in Florida. 5¢.
- 1321 F. Fumigating citrus trees for insect-pest control. 10¢.

Farmers' Bulletins—Continued.

- 1333 F. Pruning citrus trees in the Southwest. 5¢.
 1343 F. Culture of citrus fruits in Gulf States. 5¢.
 1447 F. Citrus-fruit growing in Southwest. 10¢.

Department Bulletins:

- *623 D. Citrus-fruit improvement, study of bud variation in Washington navel orange. 15¢.
 *813 D. Citrus-fruit improvement, study of bud variation in the Eureka lemon. 25¢.
 *821 D. Frost protection in lemon orchards. 10¢.
 924 D. Tear-stain of citrus fruits. 5¢.
 *1117 D. Natural control of the citrus mealybug in Florida. 5¢.
 1118 D. Citrus scab, its cause and control. 25¢.
 1159 D. Coloring Satsuma oranges in Alabama. 5¢.
 1255 D. Inheritance of composition in fruit through vegetative propagation. Bud varieties of Eureka and Lisbon lemons. 5¢.
 1290 D. Transportation of citrus fruit from Porto Rico. 5¢.
 1367 D. Coloring citrus fruit in Florida. 5¢.
 *1435 D. Economic aspects of citrus-fruit growing in Polk County, Fla. 10¢.
 1474 D. Citrus melanose and its control. 20¢.
 1483 D. Bud section in Valencia orange, progeny tests of limb variations. 15¢.

Technical Bulletins:

- *15 T. Citrus insects of Japan. 5¢.
 123 T. Bud selection in the Washington navel orange; progeny tests of limb variation. 20¢.
 163 T. Inheritance of composition of Washington navel oranges of various strains propagated as bud variants. 5¢.
 176 T. The citrus mite and its control. 15¢.
 252 T. Two citrus leaf miners of the Far East. 5¢.

Department Circulars:

- 206 DC. New feature of bud variation in citrus. 5¢.
 *215 DC. Commercial control of citrus scab. 5¢.
 232 DC. By-products from citrus fruits. 5¢.
 259 DC. Commercial control of citrus melanose. 5¢.
 293 DC. Commercial control of citrus stem-end rot. 5¢.
 *299 DC. Quarantine procedure to safeguard introduction of citrus plants; system of aseptic plant propagation. 5¢.
 409 DC. Effect of spraying with fungicides on keeping quality of Florida citrus fruits. 5¢.

Circulars:

- 181 C. New citrus hybrids. 20¢.

Yearbook Separates:

- *813 Y. Cooperative improvement of citrus varieties. 10¢.
 *946 Y. Chinese dwarf Meyer lemon introduced. 5¢.
 971 Y. Limequat, a new hardy ade fruit. 5¢.
 1000 Y. Citrus canker under control, final eradication is expected. 5¢.
 1062 Y. Citrus decay less if care is used by grower, dealer, and consumers. 5¢.
 1063 Y. Citrus specialists find new methods of propagation. 5¢.
 1216 Y. Oranges impaired in vitamin C content by arsenical sprays. 5¢.

CLOVERS

(See also under *Alfalfa, Grasses, and Forage Crops*)

Farmers' Bulletins:

- 579 F. Crimson clover: Utilization. 5¢.
 676 F. Hard clover seed treatment in hulling. 5¢.
 693 F. Bur clover. 5¢.
 1142 F. Growing crimson clover. 5¢.
 1151 F. Alsike clover. 5¢.
 1339 F. Red clover culture. 5¢.
 1365 F. Clover failure. 5¢.
 1411 F. Crimson clover-seed production. 5¢.
 1484 F. The clover-leaf weevil and its control. 5¢.
 1510 F. Anthracnose as cause of red-clover failure. 5¢.
 1653 F. Sweetclover in Corn Belt farming. 5¢.

Department Bulletins:

- *844 D. Sweetclover seed. Pt. 1, Pollination studies of seed production. Pt. 2, Structure and chemical nature of the seed coat and its relation to impermeable seeds of sweetclover. 15¢.
 *922 D. Clover-leaf weevil. 5¢.
 1426 D. Clover-root borer. 10¢.

Technical Bulletins:

- 28 T. Clover anthracnose caused by *Colletotrichum trifolii*. 15¢.

Leaflets:

- 23 L. Sweetclover. 5¢.

Yearbook Separates:

- *1098 Y. Alfalfa and red clover yellowed by leaf-hopper attack. 5¢.
 1201 Y. Sweetclover though a fertilizer crop, may itself need fertilizer. 5¢.

COLD STORAGE AND REFRIGERATION**Department Bulletins:**

- 17 D. Refrigeration of dressed poultry in transit. 10¢.
 *98 D. Application of refrigeration of handling of milk. 10¢.
 *776 D. Cold-storage reports, season 1917-18. 10¢.
 1086 D. Shrinkage of soft pork under commercial conditions. 10¢.
 1133 D. Freezing temperature of some fruits, vegetables, and cut flowers. 5¢.
 *1353 D. Efficiency of short-type refrigerator car. 5¢.
 1368 D. Cold storage of Florida grapefruit. 5¢.
 1398 D. Comparative efficiency of wire-basket bunkers in refrigerator cars. 5¢.

Technical Bulletins:

- 148 T. Frozen-pack method of preserving berries in Pacific Northwest. 10¢.
 193 T. Experiments on the processing and storing of Deglet Noor dates in California. 15¢.

Circulars:

- 73 C. The cold storage of eggs and poultry. 15¢.

Yearbook Separates:

- 745 Y. Service of cold storage in conservation of foodstuffs. 5¢.

CONSERVATION**Department Bulletins:**

- *512 D. Prevention of erosion of farm lands by terracing. 15¢.

Technical Bulletins:

- 147 T. The habits and economic importance of alligators. 10¢.

Department Circulars:

- *112 DC. Timber depletion and the answer. 5¢.

Circulars:

- 33 C. Soil erosion a national menace. 25¢.
 63 C. Conservation of wastes from the small-scale slaughter of animals. 5¢.

Miscellaneous Publications:

- 51 MP. National wild-life reservations. 5¢.

Leaflets:

- 58 L. How forests prevent erosion. 5¢.
 86 L. Strip cropping to prevent erosion. 5¢.

Yearbook Separates:

- 723 Y. Great Plains waterfowl breeding grounds and their protection. 5¢.
 836 Y. Conserving our wild animals and birds. 5¢.
 856 Y. Putting wood waste to work. 5¢.
 886 Y. Timber, mine or crop. 15¢.
 895 Y. Our forage resources. 20¢.

CORN**Farmers' Bulletins:**

- 414 F. Corn cultivation. 5¢.
 739 F. Cutworm control in corn and other cereal crops. 5¢.
 773 F. Corn growing, droughty conditions. 5¢.
 891 F. Corn-root aphid control. 5¢.
 1025 F. Larger cornstalk borer. 5¢.
 1124 F. Brown spot of corn, control suggestions. 5¢.
 1149 F. Growing corn in Southeastern States.
 1175 F. Better seed corn. 5¢.
 1176 F. Root, stalk, and ear rot diseases of corn. 5¢.
 1548 F. European corn borer, status and control methods. 5¢.
 1562 F. Farm practices under corn-borer conditions. 5¢.
 1634 F. Growing sugar corn for the cannery. 5¢.
 1651 F. The corn earworm as an enemy of field corn in the Eastern States. 5¢.
 1662 F. Husker-shredder in corn-borer control. 5¢.
 1679 F. Pop corn. 5¢.

Department Bulletins:

- *5 D. Southern corn rootworm, or budworm. 5¢.
 *48 D. Shrinkage of shelled corn while in cars in transit. 5¢.
 *168 D. Grade for commercial corn. 15¢.
 *307 D. Tests of corn varieties on the Great Plains. 5¢.
 *436 D. Desert corn flea-beetle. 5¢.
 *539 D. Lesser corn stalk-borer. 5¢.
 *754 D. Inheritance of waxy endosperm in maize. 15¢.
 764 D. Factors influencing the carrying qualities of American export corn. 20¢.
 925 D. Brachytic variation in maize. 20¢.
 *953 D. Nitrogen and other losses during the ensiling of corn. 5¢.
 *971 D. Inheritance of ramose inflorescence in maize. 20¢.

Department Bulletins—Continued.

- *1011 D. Effects of mutilating the seeds on the growth and productiveness of corn. 5¢.
- *1062 D. Relation of the character of the endosperm to the susceptibility of dent corn to root rotting. 5¢.
- *1157 D. Influence of spacing on productivity in single-ear and prolific types of corn. 5¢.
- *1209 D. Effects of selection on yield of a cross between varieties of corn. 5¢.
- *1267 D. Rough-headed cornstalk beetle. 10¢.
- *1300 D. Corn and hog correlations. 10¢.
- *1321 D. Statistical study of relation between seed-ear characters and productiveness in corn. 5¢.
- *1341 D. Effects of continuous selection for ear type in corn. 5¢.
- *1354 D. Productiveness of successive generations of self-fertilized lines of corn and of crosses between them. 10¢.
- 1396 D. Comparison of maize-breeding methods. 5¢.
- 1468 D. Variability in linkage of two seed characters of maize. 10¢.
- 1476 D. Report on investigations of European corn borer. 35¢.
- 1489 D. Corn breeding. 25¢.

Technical Bulletins:

- 10 T. Productiveness of corn as influenced by mosaic disease. 5¢.
- 59 T. European corn borer and its controlling factors in Europe. 10¢.
- 77 T. Host plants of European corn borer in New England. 30¢.
- 97 T. Relation of kernel density to table and canning quality in different varieties of maize. 5¢.
- 98 T. Imported parasites of European corn borer in America. 10¢.
- 120 T. Relation of husk covering to smut of corn ears. 5¢.
- 135 T. The corn borer in Central Europe. 20¢.
- 199 T. Trading in corn futures. 20¢.
- 230 T. *Macrocentrus gifuensis* Ashmead, a polyembryonic braconid parasite in the European corn borer. 15¢.
- 233 T. *Apanteles thompsoni* Lyle, a braconid parasite of the European corn borer. 10¢.
- 260 T. Results of seed-treatment experiments with yellow dent corn. 20¢.
- 267 T. Experiments on hybrid vigor and convergent improvement in corn. 10¢.

Department Circulars:

- *333 DC. Handling soft-corn crops. 5¢.

Circulars:

- 14 C. Status of imported parasites of European corn borer. 5¢.
- 34 C. Chemical-dust seed treatments for dent corn. 5¢.
- 71 C. Heat and time of exposure necessary to kill larvae of the European corn borer in ear corn. 5¢.
- 132 C. Fighting the corn borer with machinery on two-generation area. 15¢.
- 165 C. Plowing as a control measure for the European corn borer in western New York. 10¢.
- 194 C. Manure piles and feed lots as a source of European corn borer reinfestation. 5¢.
- 197 C. Preliminary report upon the infestation and general status of the European corn borer in western New York. 5¢.

Miscellaneous Circulars:

- 70 MC. Timely information about European corn borer. 5¢.
- *84 MC. How to fight European corn borer this fall. 5¢.
- 102 MC. Pertinent information regarding 1927 spring clean-up of areas quarantined on account of European corn borer, regulations, recommendations, suggestions, outline of plan, extra labor allowance, penalties, assessments, and equipment. 5¢.
- 104 MC. Spread and infestation by European corn borer during 1926. 5¢.

Miscellaneous Publications:

- 56 MP. Low-cutting devices for harvesting corn. 15¢.

Yearbook Separates:

- *872 Y. The corn crop. 10¢.
- 953 Y. Corn breeding in new experiments. 5¢.
- *960 Y. Corn varieties resistant to rot disease. 5¢.
- 1184 Y. Corn more resistant to cold when grown on soil rich in plant food. 5¢.
- 1187 Y. Drought in 1930 showed some strains of corn to be drought resistant. 5¢.
- 1198 Y. Pop corn selecting for added popping expansion would pay large growers. 5¢.

COST OF PRODUCTION STUDIES

(See also under name of subject)

Farmers' Bulletins:

- *1298 F. Cost of using horses on Corn Belt farms. 5¢.
- *1440 F. More profits for wheat farmers of central Kansas. 5¢.

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Department Bulletins:

- *560 D. Cost of keeping farm horses and cost of horse labor, study of records for 316 horses on 27 farms in Illinois, Ohio, and New York. 5¢.
- *561 D. Feed cost of egg production, results of three years' experiments at Government poultry farm. 10¢.
- *627 D. Cost of harvesting wheat by different methods. 5¢.
- 858 D. Requirements and cost of producing market milk in north-western Indiana. 5¢.
- *919 D. Unit requirement for producing milk in western Washington. 5¢.
- *920 D. Farm profits, figures from the same farms for a series of years, Washington County, Ohio, Clinton County, Ind., and Dane County, Wis. 15¢.
- 923 D. Unit requirements for producing market milk in Vermont. 5¢.
- *943 D. Cost of producing wheat on 481 farms in North and South Dakota, Minnesota, Kansas, Nebraska, and Missouri for the crop year 1919. 15¢.
- 955 D. Unit requirements for producing market milk in southeastern Louisiana. 5¢.
- *972 D. Unit requirements for producing market milk in eastern Nebraska. 5¢.
- *997 D. Cost and utilization of power on farms where tractors are owned, 236 farms, Ohio, Indiana, Illinois, 1920. 10¢.
- *1069 D. Relation of production to income from dairy cows. 5¢.
- 1101 D. Unit requirements for producing market milk in Delaware. 5¢.
- *1188 D. Costs and farm practices in producing potatoes on 461 farms in Minnesota, Wisconsin, Michigan, New York, and Maine for the crop year 1919. 10¢.
- 1198 D. Cost of producing winter wheat in Central Great Plains of United States. 10¢.
- 1381 D. Cost of producing hogs in Iowa and Illinois, 1921-22. 10¢.
- *1430 D. Financial limitation in employment of forest cover in protecting reservoirs. 15¢.
- 1446 D. Cost of producing winter wheat and incomes from wheat farming in Sherman County, Oreg. 10¢.
- 1447 D. Cost of using horses, tractors, and combines on wheat farms in Sherman County, Oreg. 10¢.
- *1454 D. Factors in cost of producing beef in Flint Hills section of Kansas. 5¢.
- 1455 D. Incomes from farming and cost of apple production in Shenandoah Valley and Frederick County, Va. 10¢.

Technical Bulletins:

- 23 T. Costs and methods of fattening beef cattle in the Corn Belt, 1919-1923. 20¢.
- *153 T. Effect of milk-plant arrangement and method of operation on labor requirements. 15¢.

Department Circulars:

- 307 DC. Method of testing farm-managemant and cost of production data for validity of conclusions. 5¢.

Miscellaneous Conclusions:

- 93 MC. Direct production costs of broken stone. 25¢.

Yearbook Separates:

- 876 Y. Cost data for farm products. 10¢.
- 925 Y. Farm management and costs, statistics. 10¢.
- 982 Y. Horses used in big teams give flexible power and cut costs. 5¢.
- 1155 Y. Farm business and related statistics. (1931). 15¢.
- 1168 Y. Poultry profits are largely dependent on high egg production. 5¢.

COTTON AND COTTONSEED**Farmers: Bulletins:**

- 501 F. Cotton improvement under weevil conditions. 5¢.
- 831 F. Red spider on cotton. 5¢.
- 1329 F. Boll-weevil problem. 5¢.
- 1384 F. Community cotton production. 5¢.
- 1432 F. Pima and upland cotton in Arizona. 5¢.
- 1465 F. Cotton ginning. 5¢.
- 1595 F. The bollworm or corn ear worm as a cotton pest. 5¢.
- 1661 F. Farm study of the cotton plant. 5¢.

Department Bulletins:

- *146 D. Economic conditions in sea-island cotton industry. 5¢.
- *277 D. Cotton warehouse construction. 10¢.
- *311 D. Handling and marketing of Arizona-Egyptian cotton of Salt River Valley. 5¢.
- 375 D. Disadvantages of selling cotton in seed. 5¢.
- *457 D. Relation between primary market prices and qualities of cotton. 5¢.
- *476 D. Study of cotton market conditions in North Carolina. 5¢.

Department Bulletins—Continued.

- *644 D. Lint percentage and lint index of cotton and methods of determination. 5¢.
- *946 D. Comparative spinning tests of Meade and sea-island cotton. 5¢.
- *948 D. Composition of cottonseed. 25¢.
- 985 D. System of accounting for cotton ginneries. 10¢.
- *990 D. Preliminary manufacturing tests of the official cotton standard of United States for color for upland tinged and stained cotton. 5¢.
- *1018 D. Water-stress behavior of Pima cotton in Arizona. 10¢.
- 1056 D. Marketing cottonseed for planting purposes. 5¢.
- 1111 D. One-variety cotton communities. 10¢.
- *1134 D. Self-fertilization and cross-fertilization in Pima cotton. 10¢.
- 1135 D. Spinning tests of cotton compressed to different densities. 10¢.
- 1148 D. Comparative spinning tests of 1921 crop of cotton grown under weevil conditions in Southeastern States. 5¢.
- *1153 D. Boll-weevil cotton in Texas. 5¢.
- *1164 D. Segregation and correlation of characters in upland-Egyptian cotton hybrid. 25¢.
- *1184 D. Utilization of Pima cotton. 15¢.
- 1204 D. Dusting cotton from airplanes. 10¢.
- 1219 D. Delinting and recleaning cottonseed for planting purposes. 10¢.
- 1319 D. Ginning Pima cotton in Arizona. 10¢.
- *1320 D. Behavior of cotton planted at different dates in weevil-control experiments in Texas and South Carolina. 15¢.
- 1365 D. Development of flowers and bolls of Pima and Acala cotton in relation to branching. 5¢.
- 1392 D. Cooperative marketing of cotton. 10¢.
- *1438 D. Weather damage to cotton. 5¢.
- 1444 D. Cotton prices and markets. 15¢.
- 1445 D. Services in cotton marketing. 10¢.
- 1467 D. Community production of Acala cotton in Coachella Valley of California. 15¢.
- 1473 D. Cotton-spacing experiments at Greenville, Tex. 15¢.
- 1484 D. Factors influencing severity of crazy-top disorder of cotton. 15¢.
- 1488 D. Manufacturing tests of cotton of white grades of universal standards for American cotton. 10¢.

Technical Bulletins:

- 4 T. *Lygus elisus*, pest of cotton regions of Arizona and California. 5¢.
- 13 T. Practices and costs of cotton-gin operation in north-central Texas, 1924-25. 15¢.
- 50 T. Factors affecting price of cotton. 15¢.
- 69 T. Marketing American cotton in England. 20¢.
- 72 T. Irrigation of cotton. 10¢.
- 78 T. Marketing American cotton on continent of Europe. 20¢.
- 91 T. Leaf temperatures of cotton and their relation to transpiration, varietal differences, and yields. 10¢.
- 112 T. Biology of the cotton boll weevil at Florence, S. C. 20¢.

Department Circulars:

- 175 DC. Linters. 5¢.
- 200 DC. Improvements in cotton production. 5¢.
- 205 DC. Cottonseed mixing increased by modern gin equipment. 5¢.
- *278 DC. Commercial classification of American cotton, with reference to standards for grade, color, and staple. 10¢.
- *357 DC. Production of Acala cotton in San Joaquin Valley of California. 10¢.
- 361 DC. Cotton hopper, or so-called cotton flea. 5¢.
- 381 DC. Uniform-depth press-wheel cotton, planter attachment. 5¢.
- 390 DC. Study of off-type plants of Acala cotton. 10¢.
- 401 DC. Growth and development of cotton plants at Greenville, Tex. 5¢.
- 414 DC. Sea-island and Meade cotton in Southeastern States. 5¢.

Circulars:

- 2 C. Acala cotton, superior upland variety from southern Mexico. 20¢.
- 47 C. Standardized cotton tare in Egypt. 5¢.
- 67 C. A prolonged saprophytic stage of the cotton root-rot fungus. 5¢.
- 75 C. The true cricket—A serious cotton pest in California. 5¢.
- 85 C. Studies of cotton root rot at Greenville, Tex. 10¢.
- 144 C. Farmers' experiences and opinions as factors influencing their cotton marketing methods. 10¢.
- 173 C. Cycles of growth in cotton rot at Greenville, Tex. 5¢.
- 192 C. Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. 10¢.

Miscellaneous Circulars:

- *43 MC. Lessons on cotton for elementary schools. 10¢.

Miscellaneous Publications:

- 10 MP. Establishment of standard grades for American cotton lint-ers. 5¢.
 35 MP. Cotton or weevils. 10¢.
 104 MP. The world cotton situation with outlook for 1931-32 and long-time outlook for southern agriculture. 10¢.
 126 MP. Fertilizers for cotton soils. 5¢.

Leaflets:

- 37 L. Poisoning the cotton boll weevil. 5¢.
 53 L. Cotton-louse control. 5¢.

Yearbook Separates:

- *605 Y. Improved methods of handling and marketing cotton. 5¢.
 *877 Y. The cotton situation. 15¢.
 *968 Y. Cotton of American-Egyptian variety in United States. 5¢.
 1025 Y. Cotton communities growing one variety only are increasing. 5¢.
 1111 Y. Fertilizer materials for cotton growing must be well chosen. 5¢.
 1114 Y. Cotton gin fires frequent; chief cause is static electricity. 5¢.
 1134 Y. Cotton of long staple could be produced in much greater quantity. 5¢.
 1137 Y. Cotton breeding to-day works with main types known in remote past. 5¢.
 1185 Y. Cotton more productive when thick spaced for small upright plants. 5¢.

DAIRYING

(See also under *Dairy cattle, Feeds, and Feeding*)

Farmers' Bulletins:

- 602 F. Production of clean milk. 5¢.
 976 F. Cooling milk and cream on the farm. 5¢.
 1214 F. Farm and dairy houses. 5¢.
 1272 F. Renting dairy farms. 5¢.
 1315 F. Cleaning milking machines. 5¢.
 1342 F. Dairy-barn construction. 5¢.
 1610 F. Dairy farming for beginners. 5¢.
 1675 F. Care of milk utensils on the farm. 5¢.

Department Bulletins:

- 342 D. Present status of pasteurization of milk. 5¢.
 *642 D. Four essential factors in production of milk of low bacterial content. 15¢.
 744 D. Cooling milk and storing and shipping it at low temperatures. 10¢.
 *747 D. Economical use of fuel in milk plants and creameries. 10¢.
 849 D. City milk plants, construction and arrangement. 10¢.
 *973 D. Milk-plant operation. 10¢.
 *1097 D. Effect of silage on flavor and odor of milk. 5¢.
 1297 D. Effect of feeding cabbage and potatoes on flavor and odor of milk. 5¢.
 1326 D. Effect of garlic on flavor and odor of milk. 5¢.
 1342 D. Effect of feeding green rye and green cowpeas on flavor and odor of milk. 5¢.

Technical Bulletins:

- 116 T. Dairy work at the Huntley Field Station, Huntley, Mont., 1918-1927. 15¢.
 153 T. Effect of milk-plant arrangement and method of operation on labor requirements. 15¢.

Department Circulars:

- *139 DC. The Government exhibit at the 1920 National Dairy Show. 5¢.
 276 DC. Inspection of milk supplies. 10¢.
 384 DC. How to conduct milk and cream contests. 5¢.

Circulars:

- 12 C. Dairy work at Woodward Field Station, Woodward, Okla., 1921 to 1926. 10¢.
 99 C. Equipment for city milk plants. 10¢.
 108 C. Foaming of milk and cream. 5¢.
 155 C. The ice well for the dairy farm. 5¢.
 166 C. Suggestions for the improvement of old bank dairy barns. 10¢.

Miscellaneous Publications:

- 124 MP. The outlook for the Dairy Industry and some essentials of a national dairy program. 15¢.

Leaflets:

- 3 L. Improved sanitation in milk production. 5¢.
 19 L. Improving dairy herds. 5¢.
 20 L. Care of the dairy calf. 5¢.

Publications preceded by an asterisk (*) are not for free distribution.

Yearbook Separates:

- *707 Y. Experiment in community dairying. 5¢.
 879 Y. The dairy industry. 15¢.
 1204 Y. Dairy earnings larger if cream is marketed while fresh and sweet. 5¢.

Miscellaneous:

- Proceedings of the World's Dairy Congress. 2 vols. clo. 1923. \$2.50.
 Clean milk is easily produced by following a few simple rules. (D. D. 624.)

DAIRY PRODUCTS**Farmers' Bulletins:**

- 876 F. Making butter on the farm. 5¢.
 960 F. Neufchatel and cream cheese, farm manufacture and use. 5¢.
 1191 F. Making American cheese on farm. 5¢.
 1451 F. Making and using cottage cheese in the home. 10¢.

Department Bulletins:

- 319 D. Fermented milks. 5¢.
 576 D. Manufacture of cottage cheese in creameries and milk plants. 5¢.
 608 D. Varieties of cheese, descriptions and analyses. 10¢.
 *661 D. Manufacture of casein from buttermilk or skim milk. 5¢.
 *919 D. Unit requirement for producing milk in western Washington. 5¢.
 923 D. Unit requirements for producing market milk in Vermont. 5¢.
 *940 D. Sporogenes test as an index of the contamination of milk. 15¢.
 955 D. Unit requirements for producing market milk in southeastern Louisiana. 5¢.
 *972 D. Unit requirements for producing market milk in eastern Nebraska. 5¢.
 1075 D. Whipping quality of cream. 10¢.
 *1095 D. Producers' cooperative milk-distributing plants. 10¢.
 1101 D. Unit requirements for producing market milk in Delaware. 5¢.
 1171 D. Manufacture of Camembert cheese. 5¢.
 1208 D. Effect of feeding turnips on flavor and odor of milk. 5¢.
 1344 D. Effect of various factors on creaming ability of market milk. 5¢.

Technical Bulletins:

- *18 T. Comparison of temperature and bacterial count of milk and foam during certain stages of pasteurization process. 5¢.
 153 T. Effect of milk-plant arrangement and method of operation on labor requirements. 15¢.
 159 T. Keeping quality of butter made from cream of various acidities. 5¢.
 179 T. Cooperative marketing of fluid milk. 20¢.
 243 T. Transporting and handling milk in tanks. 10¢.
 249 T. Some factors affecting the viscosity of cream. 25¢.

Department Circulars:

- 70 DC. Trend of the butter industry in the United States and other countries. 5¢.
 *71 DC. Trend of the cheese industry in the United States and other countries. 5¢.
 129 DC. Milk for the family. 5¢.
 404 DC. Concentrated sour skim milk. 5¢.

Circulars:

- 16 C. Some economic aspects of marketing of milk and cream in New England. 20¢.
 99 C. Equipment for city milk plants. 10¢.
 108 C. Foaming of milk and cream. 5¢.
 179 C. The effect of heat treatment upon the quality of dry skim milk and condensed skim milk for ice cream. 5¢.

Miscellaneous Publications:

- 37 MP. Essentials for the successful operation of a local creamery. 5¢.
 42 MP. Points to consider in establishing a cheese factory. 5¢.
 119 MP. The manufacture of low-acid rennet-type cottage cheese. 5¢.

Leaflets:

- 9 L. Making and storing farm butter for winter use. 5¢.
 25 L. Preventing feed flavors and odors in milk. 5¢.

Yearbook Separates:

- *737 Y. Cheesemaking brings prosperity to farmers in southern mountains. 5¢.
 *744 Y. How the dairy cow brought prosperity in wake of boll weevil. 5¢.
 939 Y. Dairy by-products and methods of utilizing them. 5¢.
 940 Y. Skim milk in dry form has various uses. 5¢.
 1205 Y. Cheese making in some sections necessitates pasteurization of milk. 5¢.

Miscellaneous:

Chemical testing of milk and cream.

Clean milk is easily produced by following a few simple rules. (D. D. 624.)

DISEASES: ANIMAL*(See also under name of animal)***Farmers' Bulletins:**

- 449 F. Rabies or hydrophobia. 5¢.
- 666 F. Foot-and-mouth disease. 5¢.
- 784 F. Anthrax or charbon. 5¢.
- 834 F. Hog cholera, prevention and treatment. 5¢.
- 1018 F. Hemorrhagic septicemia, stockyards fever, swine plague, fowl cholera, etc. 5¢.
- 1054 F. Loco-weed disease. 5¢.
- 1069 F. Tuberculosis in livestock. 10¢.
- 1355 F. Blackleg, its nature, cause, and prevention. 5¢.
- 1422 F. Udder diseases of dairy cows. 5¢.
- 1493 F. Lice, mange, and ticks of horses, and methods of control and eradication. 5¢.
- 1536 F. Infectious abortion of cattle. 5¢.
- 1593 F. Trembles (milk sickness). 5¢.
- 1596 F. Cattle grubs or heel flies with suggestions for their control. 5¢.
- 1625 F. Tick fever. 5¢.

Department Bulletins:

- *166 D. Ophthalmic mallein for diagnosis of glanders. 5¢.
- 662 D. Vesicular stomatitis of horses and cattle. 5¢.
- *674 D. Hemorrhagic septicemia. 5¢.
- 1449 D. Tumors of domestic animals. 10¢.

Technical Bulletins:

- *76 T. Report of Foot-and-Mouth Disease Commission of Department of Agriculture. 25¢.

Department Circulars:

- *54 DC. Tuberculosis eradication under accredited-herd plan; Herd list 2, List of herds officially accredited as free from tuberculosis and of herds that have passed successfully one test with view to certification. Revised to Apr. 1, 1919. 10¢.
- *142 DC. Tuberculosis eradication under the accredited-herd plan. Herd list 3. 10¢.
- *143 DC. Tuberculosis eradication under the accredited-herd plan. Supplement 1 to Herd list 3. 10¢.
- *144 DC. Tuberculosis eradication under the accredited-herd plan. Supplement 2 to Herd list 3. 10¢.
- *180 DC. Alkali disease of livestock in Pecos Valley. 5¢.
- 249 DC. Tuberculin testing of livestock. 10¢.
- 322 DC. Mycotic stomatitis of cattle. 5¢.
- *325 DC. Foot-and-mouth disease, with special reference to the outbreak of 1914. 5¢.
- 400 DC. Foot-and-mouth disease, with special reference to outbreaks in California, 1924, and Texas, 1924 and 1925. 15¢.

Circulars:

- 11 C. Comparative values of types of anti-hog-cholera serum. 5¢.
- 32 C. Regional lymph glands of food animals. 10¢.
- 104 C. Johne's disease (paratuberculosis) of livestock. 5¢.
- 148 C. Parasites and parasitic diseases of horses. 15¢.
- 154 C. Anaplasmosis in cattle. 5¢.

Miscellaneous Publications:

- 25 MP. Calendar of animal-parasites. 5¢.
- 59 MP. Reliability of the tuberculin test. 5¢.
- 66 MP. Economic benefits of eradication tuberculosis from livestock. 5¢.
- 68 MP. The 1929 outbreak of foot-and-mouth disease in southern California. 5¢.

Leaflets:

- 34 L. Trichinosis: A disease caused by eating raw pork. 5¢.
- 75 L. Warts on cattle. 5¢.

Yearbook Separates:

- *783 Y. Some results of Federal quarantine against foreign livestock diseases. 5¢.
- 798 Y. Practical points in hog cholera control. 5¢.
- *802 Y. Progress in eradicating contagious animal diseases. 5¢.
- *966 Y. Experiment station work on animal-disease control. 5¢.
- 1112 Y. Hog-cholera control is aided by knowledge of other swine diseases. 5¢.
- 1158 Y. Abortion-disease tests give information on the presence of this malady. 5¢.
- 1163 Y. Hog-cholera serum is greatly improved by pasteurizing process. 5¢.

Yearbook Separates—Continued.

- 1174 Y. Tuberculosis of cattle practically eradicated from State of Michigan. 5¢.
 1177 Y. Livestock parasites in manure can be killed by means of heat generated. 5¢.

DISEASES: FRUIT*(See also under name of fruit)***Farmers' Bulletins:**

- 1053 F. Control of cherry leaf spot. 5¢.
 1458 F. Strawberry diseases. 5¢.
 1488 F. Diseases of raspberries and blackberries. 10¢.
 1527 F. Peach brown rot and scab. 5¢.

Department Bulletins:

- *368 D. Brown rot of prunes and cherries in Pacific Northwest. 5¢.
 *1252 D. Prune and cherry brown-rot investigations in Pacific Northwest. 10¢.
 *1474 D. Citrus melanose and its control. 20¢.

Technical Bulletins:

- 258 T. Fungous diseases of the cultivated cranberry. 25¢.

Circulars:

- 177 C. Control of Botrytis rot [gray mold rot] of pears with chemically treated wrappers. 5¢.

Miscellaneous Publications:

- 121 MP. Market diseases of fruits and vegetables: Tomatoes, peppers, and eggplants.

DISEASES: GRAIN AND FORAGE CROPS*(See also under name of crop or grain)***Farmers' Bulletins:**

- 1540 F. Smuts of wheat and rye and their control. 5¢.
 1544 F. Common barberry and black stem rust. 5¢.
 1599 F. Scab of wheat and barley and its control. 5¢.
 1607 F. Nematode disease of wheat and rye. 5¢.

Department Bulletins:

- *1210 D. Summary of literature on bunt, or stinking smut, of wheat. 10¢.
 *1284 D. Sorghum smuts and varietal resistance in sorghums. 15¢.
 1383 D. Single-bath hot-water and steam treatments of seed wheat for control of loose smuts. 5¢.

Technical Bulletins:

- 207 T. Seed treatment for controlling covered smut of barley. 15¢.
 266 T. Morphologic and physiologic studies on stem-rust resistance in cereals. 15¢

Circulars:

- 81 C. Removing smut from the Pacific Northwest wheat by washing. 5¢.
 182 C. Stinking smut (bunt) in wheat and how to prevent it. 10¢.

Yearbook Separates:

- *755 Y. Cereal diseases and national food supply. 5¢.
 *961 Y. Stem rust in many varieties attacks grain. 5¢.
 *962 Y. Smut control by disinfectants in growing favor. 5¢.
 1135 Y. Black stem rust of cereals has more than 60 physiological forms. 5¢.
 1146 Y. Barley scab effectively controlled by rotations and clean fall plowing. 5¢.
 1180 Y. Black stem rust spores combed from the air by fliers. 5¢.

DISEASES: TREES, FLOWERS, VEGETABLES*(See also under name of Tree, Plant, or Vegetable)***Farmers' Bulletins:**

- 1345 F. Root-knot, its cause and control. 5¢.
 1439 F. Diseases of cabbage and related plants. 10¢.
 1547 F. Rose diseases, causes and control. 5¢.
 1641 F. Chestnut blight. 10¢.

Department Bulletins:

- *89 D. Death of chestnuts and oaks due to *Armillaria mellea*. 5¢.
 *317 D. Larch mistletoe, economic consideration of its injurious effects. 5¢.
 *380 D. *Endothia parasitica* and related species. 35¢.
 *490 D. Preliminary report on occurrence of western red rot in *Pinus ponderosa*. 5¢.
 *722 D. Study of heart-rot in western hemlock. 10¢.
 *828 D. Bacteria wilt of cucurbits. 15¢.
 *829 D. Mosaic disease of sugarcane and other grasses. 10¢.
 *879 D. Mosaic disease of cucurbits. 15¢.
 934 D. Damping-off in forest nurseries. 10¢.

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Department Bulletins—Continued.

- *1112 D. Western yellow pine mistletoe. Effect on growth and suggestions for control. 15¢.
- 1162 D. Rôle of the genus *Rhamnus* in the dissemination of crown rust. 5¢.
- 1186 D. White pine blister rust in western Europe. 10¢.
- *1262 D. Effect of kiln drying, steaming, and air seasoning on certain fungi in wood. 10¢.
- *1298 D. Control of decay in pulp and pulpwood. 25¢.
- *1366 D. Check list of diseases of economic plants in United States. 15¢.
- 1417 D. *Ozonium* root rot. 15¢.
- 1461 D. Control of cucumber mosaic by eradication of wild host plants. 10¢.

Technical Bulletins:

- 87 T. White-pine blister rust, comparison of European with North American conditions. 15¢.
- 181 T. Clubroot of crucifers. 5¢.
- 246 T. The relation of season of wounding and shellacking to callus formation in tree wounds. 10¢.
- 261 T. Longevity and germination of seeds of *Ribes* [currants and gooseberries], particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.
- 257 T. Deterioration of chestnut in the southern Appalachians. 10¢.

Department Circulars:

- *226 DC. White-pine blister rust in western United States. 10¢.
- 234 DC. Bacterial spot of cucumbers. 5¢.
- 321 DC. Control of cucumber mosaic in the greenhouse. 5¢.
- *370 DC. Chestnut blight in southern Appalachians. 10¢.
- *382 DC. Maple wilt. 5¢.

Circulars:

- 170 C. The Dutch elm disease. 5¢.
- 207 C. Deterioration of Christmas holly in transit. 10¢.

Miscellaneous Publications:

- 22 MP. Protect white pine from blister rust. 10¢.
- 23 MP. Protect western white pine and sugar pine from blister rust. 10¢.
- *27 MP. Black currant spreads white-pine blister rust. 5¢.
- 94 MP. Seed treatment reduces loss from plant diseases. 5¢.

Yearbook Separates:

- *598 Y. Chestnut bark disease. 10¢.
- *796 Y. Black stem rust and barberry. 5¢.
- *929 Y. Diseases and pests of fruits and vegetables. 25¢.
- *938 Y. Black currant is nurse of blister rust. 5¢.
- 941 Y. Apple trees attacked by cedar rust. 5¢.
- *1001 Y. Larch canker, new unwanted immigrant, attacks fir and pine. 5¢.
- 1006 Y. Plant-disease specimens should be properly packed and forwarded. 5¢.
- 1130 Y. Chestnut blight does not mean early end of tannin extract industry. 5¢.
- 1133 Y. Weather's influence on plant diseases important and frequently dominant. 5¢.
- 1140 Y. Nemas causing plant galls controlled best through crop rotation. 5¢.
- 1181 Y. Blister-rust control is aided by power devices for spraying host plants. 5¢.
- 1182 Y. Blister-rust control is effective with public's cooperation. 5¢.
- 1193 Y. Mushroom disease known as "Bubbles" controlled by exclusion and eradication. 5¢.

DOGS**Farmers' Bulletins:**

- 1268 F. Sheep-killing dogs. 5¢.
- 1491 F. Breeds of dogs. 10¢.

Department Circulars:

- 338 DC. Parasites and parasitic diseases of dogs. 10¢.

DRAINAGE**Farmers' Bulletins:**

- 805 F. Drainage of irrigated farms. 5¢.
- 815 F. Organization, financing, and administration of drainage districts. 5¢.
- 1131 F. Tile trenching machinery. 5¢.
- 1606 F. Farm drainage. 5¢.

Department Bulletins:

- *114 D. Report upon Black and Boggy Swamps drainage district, Hampton and Jasper Counties, S. O. 15¢.
- *502 D. Drainage of irrigated shale land. 15¢.

Department Bulletins—Continued.

- *724 D. Drainage methods and foundations for county roads. 20¢.
- 854 D. Flow of water in drain tile. 25¢.
- *1017 D. Reports on drainage and prevention of overflow in the valley of the Red River of the North. 50¢.
- *1067 D. Tests of drainage pumping plants in Southern States. 10¢.
- 1207 D. Drainage district assessments: A study of present practices in assessing benefits under State drainage laws. 10¢.
- *1408 D. Structures used in draining agricultural land. 10¢.
- 1456 D. Drainage by means of pumping from wells in Salt River Valley, Ariz. 10¢.

Technical Bulletins:

- 129 T. Flow of water in drainage channels. 40¢.
- 184 T. Erosion and silting of dredged drainage ditches. 25¢.
- 194 T. Economic status of drainage districts in the South, 1924. 10¢.
- 269 T. Economical use of large tile for land drainage. 5¢.

Yearbook Separates:

- *640 Y. Economy of farm drainage. 5¢.

DRY FARMING

(See also under Reclamation Projects, Farm Management)

Farmers' Bulletins:

- 1163 F. Dry farming in western South Dakota. 5¢.
- 1545 F. Dry farming methods and practices in wheat growing in Columbia and Snake River Basins. 10¢.

Department Bulletins:

- *1173 D. Experiments in wheat production on the dry lands of western United States. 10¢.
- *1315 D. Dry farming in southeastern Wyoming. 5¢.
- *1427 D. Dry-land gardening in Northern Great Plains Field Station, Mandan, N. Dak. 5¢.

Circulars:

- 4 C. Settlers' progress in dry-land farming in eastern New Mexico. 10¢.

EXTENSION WORK**Department Bulletins:**

- *269 D. Farmers' institute work in United States in 1914, and notes on agricultural extension work in foreign countries. 5¢.
- 1384 D. Effectiveness of extension in reaching rural people. 5¢.

Technical Bulletins:

- 106 T. Extension methods and their relative effectiveness. 15¢.
- 125 T. Relative costs of extension methods which influence changes in farm and home practices. 10¢.

Department Circulars:

- *30 DC. Organization of county for extension work, farm-bureau plan. 5¢.
- *38 DC. Boys' agricultural clubs in Southern States. 5¢.
- *66 DC. Organization and results of boys' and girls' club work in Northern and Western States, 1918. 5¢.
- *106 DC. Status and results, county-agent work, Northern and Western States, 1919. 10¢.
- *140 DC. Statistics of cooperative extension work, 1920-21. 5¢.
- *179 DC. Status and results of county-agent work, Northern and Western States, 1920. 5¢.
- *190 DC. Extension work among negroes, 1920. 5¢.
- *192 DC. Status and results of boys' and girls' club work, Northern and Western States, 1920. 10¢.
- *203 DC. Statistics of cooperative extension work, 1921-22. 5¢.
- *233 DC. Motion pictures of Department of Agriculture. 5¢.
- *244 DC. Status and results of county agent work, Northern and Western States, 1921. 10¢.
- *248 DC. Status and results of extension work in the Southern States, 1903-1921. 10¢.
- *253 DC. Statistics of cooperative extension work, 1922-23. 5¢.
- *255 DC. Status and results of boys' and girls' club work, Northern and Western States, 1921. 5¢.
- *270 DC. Extension work in agricultural engineering, 1922. 5¢.
- *285 DC. Status and results of home demonstration work, Northern and Western States, 1921. 5¢.
- 308 DC. Extension program in range livestock, dairying, and human nutrition for Western States. 5¢.
- *312 DC. Boys' and girls' club work, 1922. 10¢.
- 314 DC. Home demonstration work, 1922. 10¢.
- 316 DC. Methods and results of cooperative extension work, reported through county agricultural agents, 1922. 10¢.
- *329 DC. Extension work in plant pathology, 1923. 5¢.
- *335 DC. Extension program in crop production to reinforce range livestock, dairying, and human nutrition for Western States. 5¢.

Department Circulars—Continued.

- *343 DC. Extension work in agronomy, 1923. 5¢.
- *344 DC. Extension work in agricultural engineering, 1923. 5¢.
- 345 DC. Farm-forestry extension, early development, and status in 1923. 5¢.
- *346 DC. Extension work with fruits, vegetables, and ornamentals, 1923. 5¢.
- 347 DC. Methods and results of cooperative extension work, 1923. 10¢.
- *348 DC. Boys' and girls' 4-H club work, 1923. 10¢.
- *349 DC. Extension work in foods and nutrition, 1923. 5¢.
- *355 DC. Extension work among negroes, conducted by negro agents, 1923. 5¢.
- 375 DC. Extension program in home management and farm management for Western States, with reports of standing regional committees on range, livestock, dairying, farm crops, and human nutrition. 5¢.
- 385 DC. How to prepare and display extension exhibits. 10¢.
- *399 DC. Home demonstration work, 1923. 10¢.

Circulars:

- 17 C. Ten-year review of home management extension, 1914-1924. 10¢.
- 22 C. Ten years of agronomy extension, 1915-1924. 5¢.
- 30 C. Farm management extension, 1914-24. 10¢.
- 43 C. Home demonstration work under the Smith-Lever Act, 1914-1924. 10¢.
- 57 C. Rural church and cooperative extension work, outline of what extension work is, and how it may aid the rural church in community improvement. 10¢.
- 58 C. Planning and conducting extension campaigns. 10¢.

Miscellaneous Circulars:

- 59 MC. County agricultural agent work under Smith-Lever Act, 1914-1924. 10¢.
- *72 MC. Decade of negro extension work, 1914-1924. 10¢.
- 77 MC. Boys' and girls' 4-H club work. 10¢.
- 78 MC. Use of motion pictures in agricultural extension work. 10¢.
- *85 MC. Boys' and girls' 4-H club work under Smith-Lever Act, 1914-1924. 15¢.

Miscellaneous Publications:

- *8 MP. Review of 5 years of fact organization and State and regional program making in Western States, and report of 1927 extension conference. 5¢.
- *15 MP. History of agricultural extension work in United States, 1785-1923. Cloth, 75¢.
- 45 MP. Forestry Clubs for Young People. 5¢.
- 52 MP. How to find economic facts and apply them as a basis for extension programs in home economics, dairying, and forestry. 5¢.
- 72 MP. Lantern slides and film strips of the United States Department of Agriculture. 5¢.
- 85 MP. Horticultural exhibitions. 10¢.
- 111 MP. Motion pictures of the U. S. Department of Agriculture, 1931. 5¢.

Yearbook Separates:

- *672 Y. How the whole county demonstrated. 5¢.
- 710 Y. Effect of home demonstration work on community and county in the South. 5¢.
- *833 Y. Home demonstration bears fruit in the South. 5¢.

FARM MANAGEMENT**Farmers' Bulletins:**

- 924 F. Simple way to increase crop yields. 5¢.
- 986 F. Farm practices that increase crop yields in the Gulf Coast region. 5¢.
- 1015 F. Producing family and farm supplies on cotton farms. 5¢.
- 1088 F. Selecting a farm. 5¢.
- 1117 F. Forestry and farm income. 5¢.
- 1164 F. The farm-lease contract. 5¢.
- 1385 F. Buying farms in undeveloped region. 5¢.
- 1421 F. Successful farming on 80-acre farms in central Indiana. 5¢.
- 1440 F. More profit for wheat farmers of central Kansas. 5¢.
- 1463 F. Successful farming on 160-acre farms in central Indiana. 5¢.
- 1475 F. Soil productivity as affected by crop rotation. 5¢.
- 1545 F. Dry farming methods and practices in wheat growing in Columbia and Snake River Basins. 10¢.
- 1546 F. Systems of livestock farming in the Black Prairie Belt of Alabama and Mississippi. 10¢.
- 1562 F. Farm practice under corn-borer conditions. 5¢.
- 1565 F. Shall I buy a combine? 5¢.
- 1663 F. Winter legumes for green manuring in the Cotton Belt. 5¢.

Department Bulletins:

- *32 D. Example of successful farm management in southern New York. 5¢.

Department Bulletins—Continued.

- *151 D. Experiments in crop production on fallow land in San Antonio. 5¢.
- *157 D. Tillage and rotation experiments at Nephi, Utah. 5¢.
- *253 D. Effect of different times of plowing small-grain stubble in eastern Colorado. 5¢.
- *482 D. Farming in bluegrass region: Study of organization and management of 178 farms in central Kentucky. 5¢.
- *528 D. Seasonal distribution of farm labor in Chester County, Pa. 10¢.
- *529 D. Validity of survey method of research in farm management. 5¢.
- *625 D. Cropping systems for moisture portions of eastern Washington and Oregon and northern Idaho. 5¢.
- 633 D. Factors of successful farming near Monett, Mo. 5¢.
- *651 D. Farm-management study in Anderson County, S. C. 5¢.
- *654 D. Farm organization in irrigated valleys of southern Arizona. 10¢.
- 677 D. Soils of southern New Jersey and their uses. 40¢.
- *678 D. Influence of city on farming. 5¢.
- *694 D. Study of farm-management problems in Lenawee County, Mich. 10¢.
- *821 D. Frost protection in lemon orchards. 10¢.
- *848 D. An economic study of small farms near Washington, D. C. 5¢.
- *850 D. Rent contracts in typical counties of the wheat belt. 5¢.
- *917 D. Farm practice in growing field crops in three sugar-beet districts of Colorado. 20¢.
- 961 D. Standards of labor on the hill farms of Louisiana. 10¢.
- *968 D. Buying farms with land-bank loans. 5¢.
- *991 D. Crop rotation and cultural methods at Edgeley, N. Dak. 5¢.
- 1000 D. Labor and material requirements of field crops. 10¢.
- *1001 D. Relation of land tenure to use of arid grazing lands of Southwestern States. 15¢.
- 1034 D. Farm management and farm organization in Sumter County, Ga. 20¢.
- *1047 D. Farm mortgage loans by banks, insurance companies, and other agencies. 5¢.
- *1048 D. Bank loans to farmers on personal and collateral security. 5¢.
- *1068 D. Farm ownership and tenancy in the black prairie of Texas. 10¢.
- 1070 D. Farm management in Catawba County, N. C. 5¢.
- 1181 D. Labor requirements of Arkansas crops. 15¢.
- *1236 D. Farming logged-off uplands in western Washington. 10¢.
- 1258 D. Farming organization and management in Clinton County, Ind., business analysis of 100 farms in Forest and Johnson Townships for 8 years, 1910 and 1913-1919. 10¢.
- 1293 D. Tillage and rotation experiments at Dickinson, Hettinger, and Williston, N. Dak. 5¢.
- 1310 D. Experiments with fallow in north-central Montana. 5¢.
- 1338 D. Family living from the farm. 5¢.
- *1337 D. Study of value of crop rotation in relation to soil productivity. 15¢.
- *1379 D. Electroculture. 10¢.
- 1382 D. Relation between ability to pay and standard of living among farmers. 5¢.
- 1447 D. Cost of using horses, tractors, and combines on wheat farms in Sherman County, Oreg. 10¢.
- 1458 D. Trend toward a more effective use of land as shown by yield per acre of certain crops. 5¢.
- 1466 D. Farmers' standard of living, a socio-economic study of 2,886 white farm families in 11 States. 10¢.

Technical Bulletins:

- 102 T. Types of farming in North Dakota. 15¢.
- 144 T. Irrigated crop rotation in southern Montana. 10¢.
- 172 T. Taxation of farm property. 15¢.
- 244 T. Harvesting small grain, soybeans, and clover in the Corn Belt with combines and binders. 15¢.

Department Circulars:

- *83 DC. Testing farms in the South for efficiency in management. 5¢.
- 197 DC. The credit association as an agency for rural short-time credit. 5¢.
- 302 DC. Farm management extension, early development and status in 1922. 5¢.

Circulars:

- 78 C. Condition of farmers in a white-farmer area of the cotton piedmont, 1924-1926. 10¢.
- 184 C. Methods of crop production at the Colby (Kans.) Branch Experiment Station, 1915-1929. 5¢.

Circulars—Continued.

- 188 C. Irrigated crop rotations in western South Dakota. 10¢.
 193 C. Crop rotation and tillage experiments at the San Antonio
 (Tex.) field station. 10¢.

Miscellaneous Circulars:

- *32 MC. Practical farm economics. Cloth, 40¢.
 106 MC. Emergency crops for flooded lands, Mississippi Valley. 5¢.
 *107 MC. Emergency methods for reconstitution of flooded sugar-
 cane districts in Louisiana. 5¢.

Leaflets:

- 46 L. Farm grain storage. 5¢.

Yearbook Separates:

- *613 Y. Directory for farmers. 5¢.
 661 Y. Some outstanding factors in profitable farming. 5¢.
 702 Y. Development and localization of truck crops in United
 States. 5¢.
 764 Y. Cattle loans and the value to investors. 5¢.
 915 Y. Farm credit, farm insurance, and farm taxation. 15¢.
 1195 Y. Pasturing winter wheat in central plains pays if properly
 managed. 5¢.

FARM ORGANIZATIONS, TENANCY, AND LABOR**Farmers' Bulletins:**

- 1164 F. The farm-lease contract. 5¢.

Department Bulletins:

- *984 D. National influence of a single farm community, story of the
 flow into national life of migration from the farms. 20¢.
 1020 D. Harvest labor problem in the Wheat Belt. 10¢.
 1211 D. Sources of supply and conditions of employment of harvest
 labor in the Wheat Belt. 5¢.
 1220 D. Farm labor in Massachusetts, 1921. 5¢.
 1230 D. Conditions affecting demand for harvest labor in the Wheat
 Belt. 10¢.
 1269 D. Relation of land tenure to plantation organization. 15¢.
 1271 D. Study of farm organization in southwestern Minnesota.
 15¢.
 *1277 D. Input as related to output in farm organization and cost-of-
 production studies. 10¢.
 1285 D. Truck farm labor in New Jersey, 1922. 10¢.
 *1292 D. Field and crop labor on Georgia farms, (coastal plain area).
 5¢.
 1295 D. Land settlement and colonization in Great Lakes States.
 15¢.
 1296 D. Study of farm organization in central Kansas. 15¢.
 *1322 D. Some economic aspects of farm ownership. 5¢.
 1400 D. Factors affecting farmers' earnings in southeastern Pennsyl-
 vania. 15¢.
 1404 D. Tenancy and ownership among negro farmers in Southamp-
 ton County, Va. 5¢.
 1432 D. Ownership of tenant farms in United States. 10¢.
 1433 D. Ownership of tenant farms in North Central States. 10¢.

Technical Bulletins:

- 45 T. Study of ranch organization and methods of range-cattle
 production in northern Great Plains region. 20¢.
 *68 T. Ranch organization and methods of livestock production in
 the Southwest. 25¢.
 213 T. Perquisites and wages of hired farm laborers, 1925-1926.
 10¢.

Department Circulars:

- 351 DC. Centralized management of large corporate estate operated
 by tenants in the Wheat Belt. 10¢.
 377 DC. Farm real estate situation, 1926. 5¢.
 407 DC. Membership relations of cooperative associations, (cotton
 and tobacco).

Circulars:

- 15 C. Farm real estate situation, 1926-27. 10¢.
 60 C. Farm real estate situation, 1927-28. 10¢.
 80 C. Organization and management problems of cooperative oil
 associations in Minnesota. 10¢.
 94 C. Farmers' cooperative associations in the United States, 1929.
 15¢.
 101 C. Farm real estate situation, 1928-29. 15¢.
 150 C. Farm real estate situation, 1929-30. 10¢.

Yearbook Separates:

- 772 Y. Thrashing ring in the Corn Belt. 5¢.
 *773 Y. Livestock and reconstruction. 5¢.
 *897 Y. Farm ownership and tenancy. 15¢.

Publications preceded by an asterisk (*) are not for free distribution.

FATS, OILS, AND NAVAL STORES*(See also under Food and Nutrition)***Department Bulletins:**

- 182 D. Agricultural alcohol, studies on manufacture in Germany. 5¢.
- *898 D. Turpentine, its sources, properties, uses, transportation, and marketing, with recommended specifications. 15¢.
- 904 D. Production and utilization of corn oil in United States. 5¢.
- 989 D. Pine-oil and pine distillate product emulsions, method of production, chemical properties, and disinfectant action. 5¢.
- 1010 D. Preparation of edible oil from crude corn oil. 5¢.
- *1054 D. Comparison of corn oils obtained by expeller and benzol extraction methods. 5¢.
- *1036 D. Coal-tar and water-gas tar creosotes, their properties and methods of testing. 20¢.
- 1471 D. Oil content of flaxseed, with comparisons of tests for determining oil content. 10¢.
- 1475 D. Production and utilization of fats, fatty oils, and waxes in United States. 10¢.

Technical Bulletins:

- 16 T. Methods of extracting volatile oils from plant material and the production of such oils in the United States. 10¢.
- *71 T. Simple methods for determining oil content of seeds and other oil-bearing materials. 5¢.
- 262 T. Improvement in the production of oleoresin through lower chipping. 15¢.

Circulars:

- 110 C. Specific gravity and Baume gravity tables for turpentine. 5¢.

Miscellaneous Publications:

- 106 M.P. Pine tree treasures [naval stores]. 5¢.

Leaflets:

- 41 L. Good naval stores practice. 5¢.
- 83 L. More turpentine, less scar, better pine. 5¢.

Yearbook Separates:

- 691 Y. Some American vegetable food oils, their sources and methods of production. 5¢.
- 1013 Y. Safflower, oilseed crop, adapted to northern Great Plains. 5¢.

FEEDS AND FEEDING*(See also under Silos and Silages)***Farmers' Bulletins:**

- 724 F. Feeding of grain sorghums to livestock. 5¢.
- 1133 F. Feeding garbage to hogs. 5¢.
- 1179 F. Feeding cottonseed products to livestock. 5¢.
- 1504 F. Self-feeding versus hand-feeding sows and litters. 5¢.
- 1549 F. Feeding cattle for beef. 5¢.
- 1573 F. Legume hays for milk production. 5¢.
- 1626 F. Feeding dairy cows. 5¢.

Department Bulletins:

- *378 D. Fish meal, its uses as stock and poultry food. 5¢.
- *470 D. Studies on digestibility of grain sorghums. 5¢.
- *610 D. Fish meal as a feed for swine. 5¢.
- *745 D. Chopped soap weed as emergency feed for cattle on southwestern ranges. 5¢.
- 1124 D. Marketing of mill feed. 5¢.
- 1166 D. Apple by-products as stock foods. 5¢.
- 1272 D. Value of various new feeds for dairy cows. 5¢.
- 1297 D. Effect of feeding cabbage and potatoes on flavor and odor of milk. 5¢.
- 1342 D. Effect of feeding green rye and green cowpeas on flavor and odor of milk. 5¢.

Technical Bulletins:

- *9 T. Effect of some succulent feeds on flavor and odor of milk. 5¢.
- 110 T. Correcting the inefficiency of peanuts for growth in pigs. 5¢.

Department Circulars:

- 379 D.C. Use of salt in range management. 10¢.

Miscellaneous Circulars:

- 12 M.C. Handbook for better feeding of livestock. 15¢.

Miscellaneous Publications:

- 96 M.P. Feeding wheat to livestock, 1930. 5¢.
- 132 M.P. Rice and its by-products for feeding livestock. 5¢.

Yearbook Separates:

- *105 Y. Needs and requirements of control of feeding stuffs. 5¢.
- 983 Y. Beef from grass and grain gains producers' favor. 5¢.
- 984 Y. Pasture problems in coastal plains region of south. 5¢.
- 1121 Y. Feeds for livestock may sometimes require special preparation. 5¢.
- 1125 Y. Poultry feeds should be chosen for protein materials and vitamins. 5¢.

FERTILIZERS

Farmers' Bulletin:

- 921 F. Principle of liming of soils. 5¢.
 1250 F. Green manuring. 5¢.
 1496 F. Inoculation of legumes and nonlegumes with nitrogen-fixing and other bacteria. 5¢.
 1663 F. Winter legumes for green manure in the Cotton Belt. 10¢.

Department Bulletins:

- *572 D. Recovery of potash as a by-product in the cement industry. 5¢.
 *1126 D. Effect of borax on growth and yield of crops. 15¢.
 1179 D. Investigations of manufacture of phosphoric acid by volatilization process. 5¢.
 *1191 D. Potash from kelp, early development and growth of giant kelp, *Macrocystis pyrifera*. 5¢.
 1226 D. Recovery of potash as a by-product in blast-furnace industry. 5¢.
 1280 D. Computation of fertilizer mixtures from concentrated materials. 5¢.
 *1379 D. Electroculture. 10¢.
 1413 D. Cocoa by-products and their utilization as fertilizer materials. 10¢.

Technical Bulletins:

- *75 T. Crop-plant stimulation with paper mulch. 10¢.
 182 T. Factors affecting the mechanical application of fertilizers to the soil. 30¢.
 212 T. Mechanical analysis of finely divided natural phosphates. 5¢.
 225 T. Results of fertilizer experiments on Norfolk fine sandy loam and on Norfolk sandy loam. 5¢.

Department Circulars:

- *84 DC. Crop injury by borax in fertilizers. 10¢.
 *252 DC. Preparation of peat composts. 5¢.
 *257 DC. Composition of filter press (lime) cake [consisting largely of calcium carbonate]. 5¢.

Circulars:

- 64 C. Cyanamid, its uses as a fertilizer material. 5¢.
 77 C. Suggestions for paper mulch trials. 5¢.
 125 C. Experiments in the use of fertilizers in growing forest planting material at the Savenac Nursery. 10¢.
 129 C. Survey of the fertilizer industry. 5¢.
 167 C. Moss peat, its uses and distribution in the United States. 5¢.
 185 C. New fertilizer materials. 5¢.
 192 C. Progress report on mechanical application of fertilizers to cotton in South Carolina, 1930. 10¢.

Miscellaneous Publications:

- 126 MP. Fertilizers for cotton soils. 5¢.

Leaflets:

- 70 L. Home mixing of fertilizers. 5¢.
 71 L. Fertilizers for pecan soils. 5¢.

Yearbook Separates:

- *717 Y. Importance of developing our national resources of potash. 5¢.
 *728 Y. Fertilizers from industrial wastes. 5¢.
 *803 Y. Atmospheric nitrogen for fertilizers. 5¢.
 *814 Y. Home production of lime by the farmer. 5¢.
 1111 Y. Fertilizer materials for cotton growing must be well chosen. 5¢.
 1206 Y. Legume inoculation by cultures depends finally on field test. 5¢.
 1207 Y. Fertilizer's value much affected by method of applying it to soil. 5¢.
 1208 Y. Nitrate bacteria, main source of soil nitrates, depend on farm practice. 5¢.
 1209 Y. Manure substitutes are made from city wastes by various processes. 5¢.
 1210 Y. Manganese and other less common elements have fertilizer value. 5¢.
 1219 Y. Potash extraction from domestic sources has great possibilities. 5¢.
 1220 Y. Nitrogen fixation by legumes essentially a cooperative process. 5¢.
 1221 Y. Fertilizer studies show manner of distribution is extremely important. 5¢.

FIRE HAZARDS AND DUST EXPLOSIONS

(See also under *Forests and Forestry*)

Farmers' Bulletins:

- 1512 F. Protection from lightning. 10¢.
 1590 F. Fire-protective construction on the farm. 5¢.
 1643 F. Fire safeguards for the farm. 5¢.
 1667 F. Rural community fire departments. 10¢.

Department Bulletins:

- *379 D. Dust explosions and fires in grain separators in Pacific Northwest. 10¢.
- 530 D. Organization and management of farmers' mutual fire insurance company. 5¢.
- 681 D. Grain-dust explosions, investigation in experimental attrition mill at Pennsylvania State College. 10¢.
- *1294 D. Role of fire in California pine forests. 20¢.
- 1373 D. Dust control in grain elevators. 10¢.
- 1495 D. Cover type and fire control in the national forests of northern California. 10¢.

Technical Bulletins:

- 74 T. Value of inert gas as preventive of dust explosions in grinding equipment. 5¢.
- 141 T. The spontaneous combustion of hay. 10¢.
- 209 T. The determination of hour control for adequate fire protection in the major cover types of the California pine region. 10¢.

Department Circulars:

- *98 DC. Installation of dust-collecting fans on threshing machines for prevention of explosions and fires and for grain cleaning. 5¢.
- *134 DC. Livestock grazing as a factor in fire protection on the national forests. 10¢.
- *171 DC. Unprotected electric lights, dust explosion and fire hazard. 5¢.
- 243 DC. Forest fires in California, 1911-1920. 15¢.
- *354 DC. Weather conditions and forest fires in California. 5¢.
- *358 DC. Fire and the forest, California pine region. 5¢.

Circulars:

- 76 C. Fires in cotton gins and how to prevent them. 5¢.

Miscellaneous Circulars:

- *19 MC. Forest fires in intermountain region. 5¢.
- *53 MC. When fire is banished from the land of white oak. 5¢.
- *79 MC. Forest-fire prevention handbook for school children. 15¢.
- *88 MC. Forest-fire prevention handbook for schools of Arizona. 10¢.
- *89 MC. Forest-fire prevention handbook for schools of New Mexico. 10¢.

Miscellaneous Publications:

- *20 MP. Forest-fire prevention handbook for schools of Oregon. 10¢.
- 29 MP. Measuring forest-fire danger in northern Idaho. 20¢.
- *40 MP. Forest-fire prevention handbook for schools of Washington (State). 15¢.
- 70 MP. Glossary of terms used in fire control. 10¢.

Leaflets:

- 44 L. Fires on farms. 5¢.

Yearbook Separates:

- 1114 Y. Cotton-gin fires frequent; chief cause is static electricity. 5¢.

FISH, OYSTERS, AND MARINE PRODUCTS**Department Bulletins:**

- 538 D. Shrimp, handling, transportation, and uses. 5¢.
- *635 D. Commercial freezing and storing of fish. 5¢.
- *649 D. Experiments on digestibility of fish. 5¢.
- 740 D. A study of some of the chemical changes which occur in oysters during their preparation for market. 5¢.
- *819 D. Pink yeast causing spoilage in oysters. 5¢.

Technical Bulletins:

- 64 T. Bacteriology and chemistry of oysters, with special reference to regulatory control of production, handling, and shipment. 15¢.

Yearbook Separates:

- 623 Y. Supplementing our meat supply with fish. 5¢.
- *665 Y. Shipping fish three thousand miles to market. 5¢.

FLAX**Farmers' Bulletins:**

- 669 F. Fiber flax. 5¢.
- 1328 F. Production of seed flax. 5¢.
- 1650 F. Flaxseed production by power-farming methods in northern Great Plains. 5¢.

Department Bulletins:

- *655 D. Influence on linseed oil of the geographical source and variety of flax. 5¢.
- *883 D. Experiments with flax on breaking. 10¢.
- *1092 D. Pedigreed fiber flax. 10¢.
- *1120 D. Investigations of heat canker of flax. 10¢.
- 1185 D. Flax-stem-anatomy in relation to retting. 5¢.

Technical Bulletins:

- 133 T. Flax cropping in mixture with wheat, oats, and barley. 10¢.
236 T. The time to harvest fiber flax. 5¢.

Department Circulars:

- *264 DC. Frost resistance in flax. 5¢.
341 DC. Seed flax as farm crop in 1925. 5¢.

Yearbook Separates:

- 958 Y. Flax rust control through immune strains possible. 5¢.
1008 Y. Flax resistant to wilt and sown early helps to cut losses. 5¢.

FLOWERS, SHRUBS, AND LAWNS**Farmers' Bulletins:**

- 750 F. Roses for the home. 5¢.
1087 F. Beautifying the farmstead. 10¢.
1171 F. Growing annual flowering plants. 15¢.
1311 F. Chrysanthemums for the home. 5¢.
1370 F. Dahlias for the home. 5¢.
1381 F. Herbaceous perennials. 15¢.
1406 F. Garden irises. 10¢.
1495 F. Insect enemies of the flower garden. 15¢.
1547 F. Rose diseases, their cause and control. 5¢.
1567 F. Propagation of trees and shrubs. 10¢.
1591 F. Transplanting trees and shrubs. 10¢.
1677 F. Planting and care of lawns. 5¢.

Department Bulletins:

- *797 D. Commercial Dutch-bulb culture in the United States. 10¢.
962 D. Production of Easter lily in northern climate. 10¢.
1082 D. Production of tulip bulbs. 25¢.
*1270 D. Production of narcissus bulbs. 20¢.
1327 D. Production of grape-hyacinth bulbs. 5¢.
1331 D. Madonna lily. 5¢.
1459 D. The Regal lily. 10¢.
1462 D. American bulbs under glass. 15¢.

Technical Bulletins:

- *11 T. Production of hybrid Palestine iris corms. 5¢.

Circulars:

- 23 C. Score of easily propagated lilies. 15¢.
25 C. Production of certain iris bulbs. 10¢.
31 C. Japanese flowering cherries. 10¢.
42 C. The yellow day lilies. 5¢.
66 C. Cacti. 25¢.
68 C. Azaleas and rhododendrons from seed. 5¢.
102 C. The production of lily bulbs. 20¢.
112 C. The production of hyacinth bulbs. 10¢.
113 C. Experiments with hot-water treatment of daffodils in relation to forcing and field culture. 5¢.
122 C. Daffodils. 25¢.

Yearbook Separates:

- 998 Y. Nankeen lily scarce though grown easily in United States. 5¢.
1010 Y. Rose from Portugal, Belle Portugaise proves adapted to United States. 5¢.
1075 Y. Lily breeding is a fertile field for plant improvement. 5¢.
1100 Y. Japanese Higan Cherries gain in favor for the adornment of parks. 5¢.
1132 Y. Roses of everblooming habit available for most requirements. 5¢.
1139 Y. Roses for trellises and arbors are a result of hybridizing. 5¢.
1179 Y. Azaleas introduced from Japan are suited to wide area in the United States. 5¢.

FOODS AND NUTRITION

(See also under *Canning and Preserving, Home Economics*)

Farmers' Bulletins:

- 653 F. Honey, its uses in the home. 5¢.
712 F. School lunches. 5¢.
1195 F. Rice as food [with recipes]. 5¢.
1236 F. Corn and its uses as food. 5¢.
1313 F. Good proportions in diet. 5¢.
1359 F. Milk, and its uses in the home. 5¢.
1374 F. Care of food in the home. 5¢.
1674 F. Food for children. 5¢.

Department Bulletins:

- *241 D. Studies on fruit juices. 5¢.
*310 D. Digestibility of some animal fats, [lard, beef fat, mutton fat, butter]. 5¢.
319 D. Fermented milks. 5¢.
*467 D. Food value and uses of poultry. 5¢.
469 D. Fats and their economical use in the home. 5¢.

Department Bulletins—Continued.

- *471 D. Eggs and their value as food. 5¢.
- *503 D. Turnips, beets, and other succulent roots and their use as food. 5¢.
- *505 D. Digestibility of some vegetable fats. 5¢.
- *507 D. Studies on digestibility of some animal fats. 5¢.
- *525 D. Experiments in determination of digestibility of millets. 5¢.
- *612 D. Digestibility of the dasheen. 5¢.
- *613 D. Digestibility of certain miscellaneous animal fats. 5¢.
- *649 D. Experiments on digestibility of fish. 5¢.
- 656 D. Concord grape juice, manufacture and chemical composition. 5¢.
- *751 D. Experiments on digestibility of wheat bran in a diet without wheat flour. 5¢.
- *781 D. Digestibility of some by-product oils. 5¢.
- 1033 D. Digestibility of cod-liver, java-almond, tea-seed, and water-melon-seed oils, deer fat, and some blended hydrogenated fats. 5¢.
- 1055 D. Methods of manufacturing potato chips. 5¢.
- 1123 D. Proportioning ingredients for ice cream and other frozen products by balance method. 5¢.
- *1161 D. Effect of composition on the palatability of ice cream. 5¢.
- 1213 D. Digestibility of raw starches and carbohydrates. 5¢.
- 1307 D. Absorption and retention of hydrocyanic acid by fumigated food products, Part 2. 5¢.

Technical Bulletins:

- 46 T. Flour for pretzels. 5¢.

Department Circulars:

- 129 DC. Milk for the family. 5¢.
- 389 DC. Proximate consumption of beef. 5¢.

Circulars:

- 50 C. Proximate composition of fresh fruits. 5¢.
- 84 C. Vitamins in food materials. 15¢.
- 89 C. Nutritive value and cost of food served to college students. 5¢.
- 133 C. Development and use of baking powder and baking chemicals. 5¢.
- 146 C. Proximate composition of fresh vegetables. 5¢.
- 183 C. Factors for converting percentages of nitrogen in foods and feeds into percentages of proteins. 5¢.

Miscellaneous Circulars:

- 49 MC. Guide to good meals for junior homemaker. 5¢.
- *52 MC. Certification of coal-tar food colors. 5¢.

Miscellaneous Publications:

- 113 MP. Adequate diet for families with limited incomes. 5¢.

Leaflets:

- 17 L. Cooking beef according to the cut. 5¢.
- 28 L. Lamb as you like it. 5¢.
- 39 L. Eggs at any meal. 5¢.
- 42 L. Good food habits for children. 5¢.
- 45 L. Pork in preferred ways. 5¢.
- 48 L. Reindeer recipes. 5¢.
- 49 L. Ice creams frozen without stirring. 5¢.
- 66 L. Rabbit recipes. 5¢.
- 74 L. Boning lamb cuts. 5¢.
- 81 L. Cooking cured pork. 5¢.

Yearbook Separates:

- *592 Y. Some results obtained in studying ripening bananas with respiration calorimeter. 5¢.
- 623 Y. Supplementing our meat supply with fish. 5¢.
- 745 Y. Service of cold storage in conservation of foodstuffs. 5¢.
- 774 Y. Composition and food value of bottled soft drinks. 5¢.
- *857 Y. Milk for midshipmen. 5¢.
- *858 Y. Food for farm families. 5¢.
- 927 Y. Nutritive value of fruits, vegetables, and nuts. 5¢.
- 1117 Y. Sweetpotatoes high in food value and vitamin content. 5¢.
- 1215 Y. Ethylene-ripened tomatoes not equal in vitamins to naturally ripened fruit. 5¢.
- 1216 Y. Oranges impaired in vitamin C content by arsenical spray. 5¢.
- 1226 Y. Cottonseed flour rich in vitamin G, experiments show. 5¢.

Miscellaneous:

- *O. E. S. Bulletin 28. Chemical composition of American food materials. 10¢.
- *O. E. S. Bulletin 69. Metabolism experiments, 1899. 10¢.
- *O. E. S. Bulletin 136. Metabolism experiments, 1900-1902. 30¢.
- *O. E. S. Bulletin 175. Metabolism experiments, 1903-1904. 50¢.
- Aunt Sammy's radio recipes. (Cook Book.) 10¢.
- *Composition of food material. Set of 15 colored charts, 24 by 18 inches. \$1 a set.
- *The convenient kitchen. Set of black and white charts, 16 by 20 inches. 50¢ per set.

Miscellaneous—Continued.

- *Children's diets. Photographic prints 2 sets, 4 each in two sizes; set 1, White children; set 2, Negro children; set of 4, 72¢.
- *Food selection and meal planning. Set of 8 black and white charts, 18 by 23 inches. 50¢ per set.
- *100 caloric portions of a few familiar foods; 1 chart 23 by 17 inches showing pen and ink sketches of 20 foods. 10¢.
- *Household refrigeration. Set of 6 black and white charts, 16 by 20 inches. 20¢ per set.
- *Nutrition. Set of 10 black and white charts, 15 by 23 inches. 50¢ per set.

FORESTS AND FORESTRY

(See also under *Fire Hazards, Insects, Diseases, Plant Propagation*)

Farmers' Bulletins:

- 622 F. Basket willow culture. 5¢.
- 1071 F. Making woodlands profitable in Southern States. 5¢.
- 1117 F. Forestry and farm income. 5¢.
- 1123 F. Growing and planting hardwood seedlings on farm. 5¢.
- 1177 F. Care and improvement of farm woods. 5¢.
- 1208 F. Trees for town and city streets. 5¢.
- 1209 F. Planting and care of street trees. 5¢.
- 1210 F. Measuring and marketing farm timber. 10¢.
- 1256 F. Slash Pine. 5¢.
- 1392 F. Black walnut for timber and nuts. 5¢.
- 1405 F. Windbreak as a farm asset. 5¢.
- 1453 F. Growing and planting coniferous trees on farm. 10¢.
- 1459 F. Selling black-walnut timber. 5¢.
- 1481 F. Planting the roadside. 10¢.
- 1482 F. Trees for roadside planting. 10¢.
- 1486 F. Long-leaf pine primer. 5¢.
- 1492 F. Arbor day, its purpose and observance. 5¢.
- 1517 F. Loblolly pine primer. 10¢.
- 1567 F. Propagation of trees and shrubs. 10¢.
- 1591 F. Transplanting trees and shrubs. 10¢.
- 1663 F. Planting and care of shelter belts on the northern Great Plains. 5¢.
- 1628 F. Growing black locust trees. 5¢.
- 1664 F. Christmas trees as a cash crop for the farm. 5¢.
- 1671 F. Shortleaf pine. 10¢.
- 1680 F. Farmers in Northern States grow timber as money crop. 5¢.

Department Bulletins:

- *152 D. Eastern hemlock. 10¢.
- *153 D. Forest planting in eastern United States. 10¢.
- *234 D. Utilization and management of lodgepole pine in Rocky Mountains. 10¢.
- *308 D. Short-leaf pine, its economic importance and forest management. 15¢.
- *327 D. Spruce and balsam fir trees of Rocky Mountain region. 20¢.
- *474 D. True mahogany. 5¢.
- *479 D. Nursery practice on national forests. 25¢.
- 481 D. Status and value of farm woodlots in eastern United States. 15¢.
- 741 D. Effect of grazing upon aspen reproduction. 10¢.
- 863 D. Forestry lessons on home woodlands. 10¢.
- *894 D. Manual of design and installation of forest service water spray dry kiln. 10¢.
- *933 D. Black walnut, its growth and management. 20¢.
- 950 D. Regional development of pulpwood resources of the Tongass National Forest, Alaska. 10¢.
- 1061 D. Long-leaf pine. 15¢.
- 1113 D. Development of cooperative shelter-belt demonstrations on northern Great Plains. 10¢.
- 1131 D. Formation and pathological anatomy of frost rings in conifers injured by late frosts. 10¢.
- 1140 D. Deterioration of felled western yellow pine on insect-control projects. 5¢.
- 1176 D. Some results of cutting in the Sierra forests of California. 10¢.
- *1233 D. Forest types in central Rocky Mountains as affected by climate and soil. 30¢.
- *1263 D. Relative resistance of tree seedlings to excessive heat. 5¢.
- *1264 D. Forest planting in intermountain region. 15¢.
- 1291 D. Aspen in central Rocky Mountain region. 15¢.
- *1329 D. Bamboos, their culture and uses in United States. 20¢.
- 1402 D. Timber growing and logging practice in California pine region; measures necessary to keep forest land productive and to produce full timber crops. 10¢.
- 1437 D. Red alder of Pacific Northwest, its utilization, with notes on growth and management. 10¢.

Department Bulletins—Continued.

- 1491 D. Timber growing and logging practice in central hardwood region; measures necessary to keep forest land productive and to produce full timber crops. 15¢.
- *1493 D. Timber growing and logging practice in Douglas fir region, measures necessary to keep forest land productive and to produce full timber crops. 15¢.
- 1494 D. Timber growing and logging practice in western white pine, and larch-fir forests of northern Rocky Mountains, measures necessary to keep forest land productive and to produce full timber crops. 15¢.
- 1495 D. Cover type and fire control in the national forests of northern California. 10¢.
- 1496 D. Timber growing and logging practice in the Lake States. 20¢.
- 1497 D. Forest planting in the Lake States. 20¢.
- 1499 D. Timber growing and cutting practice in the lodgepole pine region. 15¢.

Technical Bulletins:

- 92 T. The economic aspects of forest destruction in northern Michigan. 25¢.
- 104 T. Deterioration of wind-thrown timber on the Olympic Peninsula, Washington. 10¢.
- 132 T. Decay of slash of northern white pine in southern New England. 5¢.
- 139 T. The properties of western hemlock and their relation to uses of the wood. 30¢.
- 142 T. Yields of second-growth spruce and fir in the northeast. 15¢.
- 155 T. Quaking aspen, a study in applied forest pathology. 10¢.
- 156 T. Investigations in weed control by zinc sulphur and other chemicals at the Savenac Forest Nursery. 15¢.
- 164 T. Selective logging in the northern hardwoods of the Lake States. 10¢.
- 165 T. Kiln drying of southern yellow pine lumber. 20¢.
- 166 T. Timber growing and logging practice in the Northeast. 40¢.
- 168 T. The application of silviculture in controlling the specific gravity of wood. 15¢.
- 191 T. The production, extraction, and germination of lodgepole pine seed. 20¢.
- 201 T. The yield of Douglas fir in the Pacific Northwest. 20¢.
- 204 T. Timber growing and logging and turpentine practices in the southern pine region. 30¢.
- 223 T. Reproduction on pulpwood lands in the Northeast. 20¢.
- 246 T. The relation of season of wounding and shellacking to callus formation in tree wounds. 10¢.
- 247 T. Forest types in the Southwest as determined by climate and soil. 30¢.
- 250 T. Timber growing and logging practice in the southern Appalachian region. 30¢.
- 251 T. Southern white cedar. 25¢.
- 256 T. Suitability of brush lands in the intermountain region for the growth of natural or planted western yellow pine forests. 25¢.
- 257 T. Deterioration of chestnut in the Southern Appalachians. 10¢.
- 259 T. Slash disposal in the western yellow pine forests of Oregon and Washington. 20¢.

Department Circulars:

- *5 DC. Out-of-door playgrounds of the San Isabel National Forest. 5¢.
- *8 DC. Arbor day. 5¢.
- *91 DC. The land of beautiful waters, Chelan National Forest. 5¢.
- 112 DC. Timber depletion and the answer. 5¢.
- *132 DC. Mountain vacation land, Washington National Forest. 10¢.
- *138 DC. In the open national forests of Washington. 20¢.
- *211 DC. Government forest work. 10¢.
- *239 DC. State forestry laws of 1921. 5¢.
- *240 DC. National forests of New Mexico. 5¢.
- *292 DC. Slash disposal in western white-pine forests in Idaho. 5¢.
- *313 DC. Purchase of land for national forests under act of Mar. 1, 1911, the Weeks law. 5¢.
- *318 DC. National forests of Arizona. 5¢.
- *359 DC. State forestry laws of 1922 and 1923. 10¢.
- 421 DC. Control of stain, decay, and other seasoning defects in red gum. 10¢.

Circulars:

- 19 C. Forests and floods. 10¢.
- 21 C. America and the world's woodpile. 5¢.
- 31 MC. Let's know some (California) trees. 5¢.
- 37 C. The protection forests of the Mississippi River watershed and their part in flood prevention. 10¢.
- 92 C. Forest nursery and planting practice in the California pine region. 15¢.

Circulars—Continued.

- 120 C. Growing trees for forest planting in Montana and Idaho. 25¢.
 124 C. Rate of growth of second growth southern pines in full stands. 15¢.
 125 C. Experiments in the use of fertilizers in growing forest planting material at Savenac Nursery. 10¢.
 134 C. Suggestions for the management of spruce stands in the Northeast. 10¢.

Miscellaneous Circulars:

- 5 MC. In the land of the ancient cliff dweller. 5¢.
 *15 MC. Importance of forestry and national forests. 5¢.
 *16 MC. Tree distribution [in Nebraska] under Kinkaid Act of 1911. 5¢.
 *36 MC. Wichita National Forest and Game Preserve. 5¢.
 40 MC. White pine is profitable if protected from blister rust. 5¢.
 *47 MC. What the national forests mean to the intermountain region. 5¢.
 *48 MC. What national forests mean to Montana. 10¢.
 *71 MC. National forest resources of Utah. 10¢.
 *75 MC. Harvesting timber crops in national forests of the East and South. 5¢.
 *82 MC. National forests of Wyoming. 10¢.
 91 MC. Forestry program for women's organizations. 5¢.
 *92 MC. Check-list of forest trees of United States, their names and ranges. 40¢.
 *94 MC. National forests of California. 15¢.
 *98 MC. The forest, handbook for teachers. 30¢.
 100 MC. Natural replacement of blight-killed chestnut. 5¢.

Miscellaneous Publications:

- *18 MP. National forests of Colorado. 15¢.
 24 MP. Growing pine timber for profit in the South; some examples, estimates, and opinions by lumbermen and others. 5¢.
 *26 MP. Why grow timber? 5¢.
 *39 MP. Rio Grande National Forest, Colo. 5¢.
 41 MP. Pulp-timber resources of southern Alaska. 15¢.
 45 MP. Forestry clubs for young people. 5¢.
 46 MP. Strength of North American woods. 5¢.
 50 MP. Volume, yield, and stand tables for second-growth southern pines. 25¢.
 55 MP. Pocket guide to Alaska trees. 15¢.
 61 MP. Forest planting at Biltmore, N. C. 15¢.
 70 MP. Glossary of terms used in fire control. 10¢.
 82 MP. How the national forests of California benefit the State. 5¢.
 87 MP. Profits from farm woods. 5¢.
 90 MP. Range and forest resources of Utah, their protection and use. 30¢.
 99 MP. Government forest work in Utah. 10¢.
 109 MP. Forest Rangers' Catechism. 15¢.

Leaflets:

- 18 L. Bamboos and bamboo culture. 5¢.
 29 L. Farm woods a savings bank paying interest. 5¢.
 30 L. Cutting the farm woods "profit wise." 5¢.
 32 L. Planting southern pine. 5¢.
 35 L. Producing pine nursery stock in the South. 5¢.
 40 L. Woods burning in the south. 5¢.
 55 L. Small trees wasteful to cut for saw timber. 5¢.
 57 L. Pulpwood crops in the Northeast. 5¢.
 58 L. Making a model to show how forests prevent erosion. 5¢.

Yearbook Separates:

- *779 Y. Farm woodlands and the war. 5¢.
 835 Y. Wood for the Nation. 5¢.
 847 Y. How the public forests are handled. 5¢.
 886 Y. Timber, mine or crop. 15¢.
 910 Y. Forestry and forest products. 5¢.
 *943 Y. Bamboo groves thrive in the United States. 5¢.
 945 Y. Chinese elm in American horticulture. 5¢.
 1005 Y. Holly from China suited to wide areas in United States. 5¢.
 1012 Y. Tung-oil tree does best in southeast coastal regions. 5¢.
 1014 Y. Tree giants in Sequoia groves are menaced by tourists. 5¢.
 1234 Y. Trees of four kinds are becoming important in planting on farm. 5¢.

Miscellaneous:

- *Forest trees of the Pacific slope. 60¢.
 National forest receipts for the benefit of schools and roads.
 *Instructions for appraising stumpage on national forests. 10¢.
 *Guidebook for identification of woods used for ties and timbers. 30¢.
 *What the national forests mean to the water user. 10¢.
 Vacation in the national forests. (Leaflet.)
 *Telephone trouble book, District 1. 25¢.

Miscellaneous—Continued.

- *Instructions for making timber surveys in national forests, including classification of forest types. 25¢.
- *National forests of southern Appalachians, what they mean to the East and South. 15¢.
- *National forests of Arizona. 5¢.
- *Idea vacation and, national forests in Oregon. 15¢.
- *Oregon caves. 10¢.
- Help prevent woods fires. (Leaflet.)
- Pines for profit. (Leaflet.)
- *Sharpening cross-cut saws. 25¢.
- *The story of the range. 25¢.
- Grazing use book. 15¢.

FOREST PRODUCTS**Department Bulletins:**

- *12 D. Uses of commercial woods of United States; beech, birches, maples. 10¢.
- *232 D. Production of lumber in 1913. 5¢.
- *286 D. Strength tests of structural timbers treated by commercial wood-preserving processes. 5¢.
- *508 D. Yields from destructive distillation of certain hardwoods, second progress report. 5¢.
- *552 D. Seasoning of wood. 10¢.
- *556 D. Mechanical properties of woods grown in United States. 10¢.
- *673 D. Production of lumber, lath, and shingles in 1916. 5¢.
- *753 D. Use of wood for fuel. 10¢.
- *768 D. Production of lumber, lath, and shingles in 1917. 10¢.
- *845 D. Production of lumber, lath, and shingles in 1918. 10¢.
- *909 D. Utilization of black walnut. 30¢.
- *983 D. Manufacture of ethyl alcohol from wood waste. 15¢.
- *1003 D. Distillation of stumpwood and logging waste of western yellow pine. 15¢.
- 1007 D. Utilization of basswood. 20¢.
- *1037 D. Control of sap-stain, mold, and incipient decay in green wood with special reference to vehicle stock. 15¢.
- *1050 D. Identification of true mahogany, certain so-called mahoganies, and some common substitutes. 10¢.
- *1053 D. Studies of certain fungi of economic importance in decay of building timbers. 15¢.
- *1064 D. Oleoresin production. 20¢.
- *1119 D. Lumber cut in United States, 1870-1920, declining production and high prices as related to forest exhaustion. 15¢.
- 1128 D. Decays and discolorations in airplane woods. 20¢.
- 1136 D. Kiln drying handbook. 30¢.
- *1425 D. Air seasoning of western softwood lumber. 25¢.
- 1436 D. Utilization of dogwood and persimmon. 15¢.
- *1500 D. The gluing of wood. 25¢.

Technical Bulletins:

- 158 T. Comparative strength properties of woods grown in the United States. 10¢.
- 167 T. Tests of large timber columns and presentation of the forest products laboratory column formula. 15¢.
- 171 T. Principles of box and crate construction. 55¢.
- 174 T. The air seasoning of wood. 35¢.
- 205 T. Gluing wood in aircraft manufacture. 25¢.
- 226 T. The distribution and mechanical properties of Alaska woods. 20¢.
- 248 T. Wood-liquid relations. 10¢.
- 262 T. Improvement in the production of Oleoresin through lower chippings. 15¢.

Department Circulars:

- *64 DC. How lumber is graded. 10¢.
- *78 DC. Machine for trimming camphor trees. 5¢.
- *223 DC. Important forest trees of eastern United States. 5¢.
- *295 DC. Basic grading rules and working stresses for structural timbers. 5¢.
- *296 DC. Standard grading specifications for yard lumber. 20¢.
- 327 DC. French turpentine system applied to longleaf pine. 5¢.
- *393 DC. Industrial outlets for short-length softwood yard lumber. 10¢.

Circulars:

- 105 C. Knotty lumber for boxes. 10¢.
- 131 C. Utilization of black locust. 10¢.
- 128 C. Effectiveness of moisture-excluding coatings on wood. 10¢.
- 163 C. Manufacture of dimension stock from northern hardwoods. 15¢.
- 207 C. Deterioration of Christmas holly in transit. 10¢.

Publications preceded by an asterisk (*) are not for free distribution.

Miscellaneous Circulars:

- *39 MC. Report of National Conference on Utilization of Forest Products, Washington, D. C., Nov. 19 and 20, 1924. 20¢.
66 MC. Identification of furniture woods. 25¢.

Miscellaneous Publications:

- 46 MP. The strength of North American woods. 15¢.
106 MP. Pine tree treasures [naval stores]. 5¢.
107 MP. An explanation of American lumber standards. 5¢.

Leaflets:

- 62 L. Why some wood surfaces hold paint longer than others. 5¢.
82 L. More turpentine, less scar, better pine. 5¢.

Yearbook Separates:

- *276 Y. Chemical studies of some forest products of economic importance. 5¢.
*670 Y. Osage orange waste as a substitute for fustic dyewood. 5¢.
*835 Y. Wood for the Nation. 5¢.
856 Y. Putting wood waste to work. 5¢.
1130 Y. Chestnut blight does not mean early end of tannin-extract industry. 5¢.
1233 Y. Sawmills pay more for logs that are correctly bucked. 5¢.

FRUIT GROWING AND MARKETING

(See also under names of *Fruits, Diseases, Insects*)

Farmers' Bulletins:

- 685 F. The native persimmon. 5¢.
727 F. Growing fruit for home use in the Great Plains area. 5¢.
776 F. Growing cherries east of Rocky Mountains. 5¢.
1001 F. Growing fruit for home use. 10¢.
1031 F. Fig growing in the South Atlantic and Gulf States. 5¢.
1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 10¢.
1237 F. Pineapple culture in Florida. 10¢.
1249 F. Olive growing in southwestern United States. 5¢.
1372 F. Plum and prune growing in Pacific States. 10¢.
1522 F. Home fruit gardens on northern Great Plains. 10¢.
1676 F. Lubricating oil sprays for use on dormant fruit trees. 5¢.
1687 F. Removing spray residue from apples and pears. 5¢.

Department Bulletins:

- *223 D. Botanical character of leaves of date palm used in distinguishing cultivated varieties. 10¢.
*271 D. Dates of Egypt and the Sudan. 20¢.
732 D. Smyrna fig culture. 10¢.
*830 D. Effect of temperature on resistance to wounding of certain small fruits and cherries. 5¢.
*1125 D. Saidy date of Egypt, variety of first rank adapted to commercial culture in United States. 15¢.
*1189 D. Fruits in West Virginia, Kentucky, and Tennessee. 15¢.
*1215 D. Chinese jujube. 10¢.
1467 D. Date culture in Egypt and the Sudan. 25¢.
1477 D. Varietal characteristics of plums in Pacific States in relation to pruning. 45¢.

Technical Bulletins:

- 253 T. Petroleum oils and oil emulsions as insecticides and their use against the San Jose Scale on peach trees in the South. 10¢.
255 T. Life history of the codling moth in the Rogue River Valley of Oregon. 10¢.

Department Circulars:

- *58 DC. Fruit growing on northern Great Plains. 5¢.
387 DC. Pollination of the avocado. 5¢.
416 DC. Demand, marketing, and production of Oregon and Washington prunes. 10¢.

Circulars:

- 49 C. Culture and outdoor winter storage of persimmons in vicinity of Peking, China. 5¢.
59 C. Removal of spray residue from apples and pears in Pacific Northwest. 5¢.
98 C. The Wonderful variety of pomegranate. 5¢.

Yearbook Separates:

- *618 Y. Promising new fruits. 15¢.
*686 Y. Color as indication of picking maturity of fruits and vegetables. 10¢.
944 Y. Chinese jujube in southwestern United States. 5¢.
*947 Y. Olives of the Barouni variety do well. 5¢.
949 Y. Date growing, a new industry for Southwest States. 5¢.
*1020 Y. Fruit improvement work advanced at experiment stations. 5¢.
*1021 Y. Mango of Carabao variety brought from Philippines is promising. 5¢.
1024 Y. Date plantings free from pests, in irrigated Southwest. 5¢.
1138 Y. Papaya growing in south Florida has made some headway. 5¢.

FUR-BEARING ANIMALS

Farmers' Bulletins:

- 587 F. Economic value of North American skunks. 5¢.
 869 F. Muskrat as fur bearer with notes on its use as food. 5¢.
 1247 F. American moles as agricultural pests and as fur producers. 5¢.
 1519 F. Rabbit skins for fur. 5¢.
 1568 F. Rabbit parasites and diseases. 5¢.
 1598 F. Mountain beavers in the Pacific Northwest: Their habits, economic status, and control. 5¢.
 1685 F. Fur laws for the season 1931-1932. 5¢.

Department Bulletins:

- *1151 D. Silver-fox farming. 15¢.
 1350 D. Blue-fox farming in Alaska. 10¢.

Technical Bulletins:

- 21 T. Beaver habits and experiments in beaver culture. 20¢.

Circulars:

- 82 C. Improved reindeer handling. 5¢.
 107 C. The normal breeding season and gestation period of martens. 5¢.

Leaflets:

- 4 L. Raising domestic rabbits. 5¢.
 6 L. Experimental fur farm of Biological Survey. 5¢.
 8 L. Mink raising. 5¢.
 15 L. Rabbit house construction. 5¢.
 22 L. Chinchilla rabbits for food and fur. 5¢.
 27 L. Recommendations to beginners in fur farming. 5¢.
 47 L. Hygiene in fox farming. 5¢.

GAME: PROPAGATION AND PROTECTION

Farmers' Bulletins:

- 1612 F. Propagation of aquatic game birds. 10¢.
 1613 F. Propagation of upland game birds. 10¢.
 1684 F. Game Laws for the season 1931-32. 5¢.
 1685 F. Fur laws for the season 1931-32. 5¢.

Department Bulletins:

- 205 D. Eleven important wild-duck foods. 5¢.
 465 D. Propagation of wild-duck foods. 10¢.
 *672 D. Duck sickness in Utah. 10¢.
 *720 D. Food habits of mallard ducks of United States. 5¢.
 793 D. Lead poisoning in waterfowl. 5¢.
 *794 D. Waterfowl and their food plants in the sandhill region of Nebraska: Pt. 1, Waterfowl in Nebraska; Pt. 2, Wild-duck foods of the sandhill region of Nebraska. 15¢.
 1089 D. Reindeer in Alaska. 25¢.
 *1145 D. Migration records from wild ducks and other birds banded in Salt Lake Valley, Utah. 5¢.
 1346 D. Status of pronghorned antelope, 1922-1924. 15¢.
 1423 D. Progress of reindeer grazing investigations in Alaska. 15¢.

Technical Bulletins:

- 147 T. The habits and economic importance of alligators. 10¢.
 221 T. Wild-duck foods of North Dakota lakes. 15¢.

Department Circulars:

- *63 DC. Directory of officials and organizations concerned with the protection of birds and game, 1919. 5¢.
 *88 DC. Annual report of the Governor of Alaska on the Alaska game law, 1919. 5¢.
 *161 DC. Pisgah National Game Preserve, regulations and information for the public. 5¢.
 *168 DC. Annual report of Governor of Alaska on Alaska game law, 1920. 5¢.
 *182 DC. Migratory bird treaty act, extract from charge delivered to grand jury in district court of United States for middle district of Alabama at Opelika, Apr. 4, 1921. 5¢.
 *202 DC. Migratory bird treaty act, United States v. Joseph H. Lumpkin. 5¢.
 *225 DC. Annual report of Governor of Alaska on Alaska game law, 1921. 5¢.
 *242 DC. Directory of officials and organizations concerned with protection of birds and game, 1922. 5¢.
 260 DC. Annual report of Governor of Alaska on Alaska game law, 1922. 5¢.
 *298 DC. Directory of officials and organizations concerned with protection of birds and game, 1923. 5¢.
 *360 DC. Directory of officials and organizations concerned with protection of birds and game, 1925. 5¢.

Circulars:

- 96 C. Game birds suitable for naturalizing in the United States. 10¢.
 118 C. Calculating waterfowl abundance on the basis of banding returns. 5¢.

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Miscellaneous Publications:

- 6 MP. Directory of officials and organizations concerned with protection of birds and game, 1927. 5¢.
 *30 MP. Directory of officials and organizations concerned with protection of birds and game, 1928. 5¢.
 51 MP. National wild-life reservation. 5¢.
 57 MP. Directory of officials and organizations concerned with the protection of birds and game, 1929. 5¢.
 92 MP. Directory of officials and organizations concerned with the protection of birds and game, 1930. 5¢.
 122 MP. Officials and organizations concerned with wild-life protection, 1931. 5¢.

Leaflets:

- 50 L. How to make a cat trap. 5¢.
 59 L. Hints on wolf and coyote trapping. 5¢.
 78 L. Hints on bob-cat trapping. 5¢.

Yearbook Separates:

- 723 Y. Great Plains waterfowl breeding grounds and their protection. 5¢.
 *785 Y. Federal protection of migratory birds. 5¢.
 823 Y. Trapping on the farm. 5¢.
 836 Y. Conserving our wild animals and birds. 5¢.

Miscellaneous:

Laws and regulations relating to game and fur-bearing animals and birds in Alaska, 1931. (Alaska Game Commission Circular 8.) 10¢.

GARDENING: HOME AND SCHOOL

(See also under *Diseases, Insects, Vegetables*)

Farmers' Bulletins:

- 218 F. School garden. 5¢.
 934 F. Home gardening in the South. 5¢.
 1044 F. City home garden. 5¢.
 1242 F. Permanent fruit and vegetable gardens. 5¢.
 1673 F. Farm garden. 10¢.

GARDENING. TRUCK

(See also under *Diseases, Insects, Marketing, Vegetables*)

Farmers' Bulletins:

- 232 F. Okra, its culture and uses. 5¢.
 354 F. Onion culture. 5¢.
 433 F. Cabbage. 5¢.
 434 F. Onion seeds and sets. 5¢.
 1064 F. Production of late or main-crop potatoes. 5¢.
 1253 F. Seed peas for the canner. 5¢.
 1255 F. Production of peas for canning. 5¢.
 1269 F. Celery growing. 5¢.
 1338 F. Tomatoes as a truck crop. 5¢.
 1563 F. Cucumber growing. 5¢.
 1609 F. Lettuce growing. 5¢.
 1620 F. Growing cucumbers for pickling. 5¢.
 1646 F. Asparagus growing. 5¢.
 1673 F. The farm garden. 10¢.

Circulars:

- 77 C. Suggestions for paper-mulch trials. 5¢.

GRAINS

(See also under name of *Grain, Diseases, Insects, Marketing*)

Farmers' Bulletins:

- 786 F. Fall-sown grains in Maryland and Virginia. 5¢.
 793 F. Foxtail millet, its culture and utilization. 5¢.
 827 F. Shallu; Egyptian wheat. 5¢.
 878 F. Grains for western North and South Dakota. 5¢.
 1062 F. Buckwheat. 5¢.
 1103 F. Growing irrigated grain in southern Idaho. 5¢.
 1137 F. Grain sorghums, how to grow them. 5¢.
 1158 F. Growing and utilizing sorghums for forage. 5¢.
 1162 F. Proso, or hog millet. 5¢.
 1290 F. Bulk handling of grain. 5¢.
 1429 F. Emmer and spelt. 5¢.
 1464 F. Barley: Culture, uses, and varieties. 5¢.
 1542 F. Cleaning grain on farms and in country elevators. 5¢.
 1577 F. Harvesting grain sorghums. 5¢.
 1619 F. Sorgo for sirup production, harvesting, and handling. 10¢.
 1636 F. Farm bulk storage for small grains. 10¢.
 1657 F. The Great Basin wireworm in the Pacific Northwest. 5¢.

Department Bulletins:

- *188 D. Importance of thick seeding in the production of milo in the San Antonio region. 5¢.
 *558 D. Marketing grain at country points. 5¢.

Department Bulletins—Continued.

- 698 D. Grain-sorghum experiments in Panhandle of Texas. 15¢.
 *789 D. Notes on grain pressures in storage bins. 5¢.
 *869 D. Inheritance of the length of internode in the rachis of the barley spike. 5¢.
 *976 D. Culture experiments with grain sorghums in the Texas Panhandle. 10¢.
 1065 D. The test weight of grain, a simple method of determining the accuracy of the testing apparatus. 5¢.
 1129 D. Physical and chemical study of milo and feterita kernels. 5¢.
 *1175 D. Grain-sorghum experiments at the Woodward Field Station in Oklahoma. 15¢.
 1197 D. Experiment with emmer, spelt, and einkorn. 10¢.
 1260 D. Sorghum experiments on the Great Plains. 15¢.
 *1309 D. Experiments with small grains on Arlington Experiment Farm. 10¢.
 *1334 D. Tests of barley varieties in America. 30¢.
 1386 D. Some panicle characters of sorgo. 20¢.

Technical Bulletins:

- 100 T. Respiration of sorghum grains. 5¢.
 121 T. Methods of harvesting grain sorghums. 10¢.
 131 T. Spacing and date-of-seeding experiments with grain sorghums. 10¢.
 207 T. Seed treatment for controlling covered smut of barley. 15¢.
 266 T. Morphologic and physiologic studies on stemrust resistance in cereals. 15¢.

Department Circulars:

- *124 D.C. Spur feterita. 5¢.
 *208 D.C. Trebi barley, a superior variety for irrigated land. 5¢.

Circulars:

- 52 C. Varietal standardization of sorgo and the selection of seed. 10¢.
 119 C. Relation of dust fungicides to flow of small grains through drills and to drill injury. 5¢.
 127 C. Grain drying at a country elevator. 5¢.
 151 C. Hedging in grain futures; theory and practice. 25¢.
 161 C. Bulk and sack handling of grain in the Pacific Coast States. 10¢.
 190 C. Buckwheat milling and its by-products. 5¢.

Miscellaneous Circulars:

- 56 M.C. Cleaning grain with Bates aspirator. 10¢.

Yearbook Separates:

- 766 Y. Farmer and Federal grain supervision. 5¢.
 *769 Y. Place of rye in American agriculture. 5¢.
 1146 Y. Barley scab effectively controlled by rotations and clean fall plowing. 5¢.

GRAPES**Farmers' Bulletins:**

- 471 F. Grape propagation, pruning, and training. 5¢.
 1220 F. Insect and fungous enemies of the grape. 10¢.
 1454 F. Home utilization of muscadine grapes. 5¢.
 1558 F. Preparation of eastern grapes for market. 5¢.

Department Bulletins:

- *550 D. Control of grape-berry moth in Erie-Chautauqua grape belt. 10¢.
 656 D. Concord grape juice, manufacture and chemical composition. 5¢.
 861 D. Marketing eastern grapes. 10¢.
 *903 D. Grape phylloxera in California. 30¢.

Technical Bulletins:

- 146 T. Testing phylloxera-resistant grape stocks in the vinifera regions of the United States. 20¢.

Circulars:

- 44 C. Marketing California grapes. 25¢.
 83 C. The handling of California table grapes. 5¢.

GRASSES, GRAZING, FORAGE CROPS, LEGUMES**Farmers' Bulletins:**

- 945 F. Eradication of Bermuda grass. 5¢.
 *1048 F. Rhodes grass. 5¢.
 *1072 F. Prickly pear as a stock feed. 5¢.
 1126 F. Sudan grass. 5¢.
 1143 F. Lespedeza as a forage crop. 5¢.
 1148 F. Cowpeas, culture and varieties. 5¢.
 1153 F. Cowpeas utilization. 5¢.
 1254 F. Important cultivated grasses. 5¢.
 1276 F. Velvet bean. 5¢.
 1433 F. Cultivated grasses of secondary importance. 10¢.
 1511 F. Forage crops and their culture in northern Nebraska and the Dakotas. 10¢.

Farmers' Bulletins—Continued.

- 1520 F. Soybeans, culture and varieties. 5¢.
 1537 F. Johnson grass as a weed. 5¢.
 1573 F. Legume hays for milk production. 5¢.
 1574 F. Preparing Johnson grass for market in the Black Prairie Belt of Alabama and Mississippi. 5¢.
 1597 F. The production of Johnson grass for hay and pasturage. 5¢.
 1602 F. Reed canary grass. 5¢.
 1605 F. Soybean hay and seed production. 5¢.
 1617 F. Soybean utilization. 5¢.
 1663 F. Winter legumes for green manuring in the Cotton Belt. 5¢.

Department Bulletins:

- *34 D. Range improvement by deferred and rotation grazing. 5¢.
 *211 D. Factors affecting range management in New Mexico. 15¢.
 *353 D. Moisture content and shrinkage of forage. 10¢.
 *461 D. Identification of grasses by their vegetative characters. 5¢.
 *580 D. Effects of grazing upon western yellow pine reproduction in the national forests of Arizona and New Mexico. 10¢.
 *772 D. Genera of grasses of United States, with special reference to the economic species. 40¢.
 1170 D. Effects of different systems and intensities of grazing upon native vegetation at the Northern Great Plains Field Station. 15¢.
 1244 D. Forage crops in relation to the agriculture of semiarid portion of the northern Great Plains. 10¢.
 1345 D. Saltbushes and their allies in United States. 15¢.
 *1405 D. Grazing periods and forage production on national forests. 15¢.
 1450 D. Life history of timothy. 25¢.

Technical Bulletins:

- 93 T. Four species of range plants not poisonous to livestock. 5¢.
 113 T. Arrow grass. 5¢.
 114 T. Sleepy grass. 5¢.

Department Circulars:

- *9 DC. Meadow fescue. 5¢.
 *50 DC. Sudan grass. 5¢.
 *118 DC. Field pea. 5¢.
 *317 DC. Korean lespedeza, new forage crop. 5¢.
 *374 DC. Winter field peas, their value as winter cover and green-manure crop. 5¢.

Circulars:

- 62 C. The utilization of browse forage as summer range for cattle in southwestern Utah. 10¢.
 137 C. Crotalaria, a new legume for the South. 10¢.
 178 C. Artificial reseeding on western mountain range lands. 15¢.

Miscellaneous Publications:

- 90 MP. Range and forest resources of Utah, their protection and use. 30¢.
 101 MP. Important western browse plants. 45¢.
 110 MP. Glossary of botanical terms commonly used in range research. 15¢.

Yearbook Separates:

- 895 Y. Our forage resources. 20¢.
 1119 Y. Pastures have a wide variation in feeding value for livestock. 5¢.
 1128 Y. Soybeans are valuable for silage when grown with other food crops. 5¢.
 1131 Y. Forage crop seed imports vary much from year to year; Sources world-wide. 5¢.
 1178 Y. Austrian winter pea has superior value as a green manure. 5¢.
 1186 Y. Crotalaria, a new green manure and forage crop promises well in the South. 5¢.
 1191 Y. Lespedezas introduced from Asia thrive in widening area in United States. 5¢.
 1194 Y. Pasture improvement the first need in strengthening South's livestock industry. 5¢.

HAY, HAYMAKING, AND MARKETING

(See also under Grasses and Forage Crops)

Farmers' Bulletins:

- *977 F. Hay caps. 5¢.
 *987 F. Labor-saving practices in haymaking. 5¢.
 1525 F. Effective haying equipment and practices for northern Great Plains and intermountain regions. 10¢.
 1573 F. Legume hays for milk production. 5¢.
 1574 F. Preparing Johnson grass for market in Black Prairie Belt of Alabama and Mississippi. 5¢.
 1597 F. The production of Johnson grass for hay and pasturage. 5¢.
 1605 F. Soybean hay and seed production. 5¢.
 1615 F. Hay stackers and their use. 5¢.

Department Bulletins:

- *873 D. The shrinkage of market hay. 5¢.
- 977 D. Marketing hay at country points. 5¢.
- 978 D. Weighing of market hay. 10¢.
- 979 D. Marketing hay through terminal markets. 10¢.
- 980 D. Inspection and grading of hay. 5¢.

Technical Bulletins:

- 141 T. The spontaneous combustion of hay. 10¢.
- 235 T. Quality of alfalfa hay in relation to curing practices. 10¢.
- 239 T. A method for determining the volume and tonnage of hay stacks. 10¢.

Leaflets:

- 72 L. Measuring hay in stacks. 5¢.

Yearbook Separates:

- 916 Y. Hay. 20¢.

HOGS

(See also under *Diseases, Insects, Marketing*)

Farmers' Bulletins:

- 781 F. Tuberculosis of hogs. 5¢.
- 834 F. Hog cholera, prevention and treatment. 5¢.
- 985 F. Systems of hog farming in Southeastern States. 5¢.
- 1085 F. Hog lice and hog mange, methods of control and eradication. 5¢.
- 1133 F. Feeding garbage to hogs. 5¢.
- 1186 F. Pork on farm, killing, curing, and canning. 5¢.
- 1244 F. Diseases, ailments, and abnormal conditions of swine. 5¢.
- 1263 F. Breeds of swine. 5¢.
- 1357 F. Castration of hogs. 5¢.
- 1437 F. Swine production. 5¢.
- 1455 F. Fitting, showing, and judging hogs. 5¢.
- 1487 F. Practical hog houses. 5¢.
- 1490 F. Hog-lot equipment. 5¢.
- 1504 F. Self-feeding versus hand-feeding of swine. 5¢.

Department Bulletins:

- 752 D. Utilization of irrigated field crops for hog pasturing. 10¢.
- *1300 D. Corn and hog correlations. 10¢.
- *1381 D. Cost of producing hogs in Iowa and Illinois, 1921-22. 10¢.
- 1407 D. Some results of soft-pork investigations, I. 15¢.
- *1440 D. Factors affecting price of hogs. 15¢.
- 1492 D. Some results of soft-pork investigations, II. 15¢.

Technical Bulletins:

- 44 T. Swine sanitation system as developed by Bureau of Animal Industry in McLean County, Ill. 5¢.

Miscellaneous Circulars:

- 57 MC. Tattoo method of marking hogs and its use. 5¢.

Miscellaneous Publications:

- 79 MP. Anthelmintics for removal of thorn-head worms in swine. 5¢.

Leaflets:

- 5 L. Prevention of round worms in pigs. 5¢.

Yearbook Separates:

- *753 Y. Pig clubs and the swine industry. 5¢.
- 798 Y. Practical points in hog cholera control. 5¢.
- 841 Y. Runts, and the remedy. 5¢.
- 989 Y. Pork curing needs extreme care to give best results. 5¢.
- 992 Y. Hog industry losing much on pigs that don't get to market. 5¢.
- 1050 Y. Hogs can be produced profitably in parts of northern Great Plains. 5¢.
- 1052 Y. Hog profits increased by proper selection of foundation animals. 5¢.
- 1054 Y. Hog cholera losses can be much reduced by sanitary measures. 5¢.
- 1112 Y. Hog-cholera control is aided by knowledge of other swine diseases. 5¢.
- 1120 Y. Hog weight affects yield and popularity of market pork cuts. 5¢.
- 1163 Y. Hog-cholera serum is greatly improved by pasteurizing process. 5¢.
- 1164 Y. Hogs that produce the best export pork also make good domestic cuts. 5¢.
- 1171 Y. Swine if inbred give birth to small litters of pigs lacking vigor. 5¢.
- 1172 Y. Swine kidney worm causes loss to southern producers from condemned carcasses. 5¢.
- 1173 Y. Swine-sanitation plan results in more and better pigs per sow. 5¢.

Publications preceded by an asterisk (*) are not for free distribution.

HOME ECONOMICS

*(See also under Canning and Preserving, Foods and Nutrition)***Farmers' Bulletins:**

- 927 F. Farm home conveniences. 5¢.
- 960 F. Neufchatel and cream cheese, farm manufacture and use. 5¢.
- 1075 F. Unfermented grape juice, how to make it in the home. 5¢.
- 1157 F. Waterproofing and mildewproofing cotton duck. 5¢.
- 1180 F. Housecleaning made easier. 5¢.
- 1191 F. Making American cheese on farm. 5¢.
- 1219 F. Floors and floor covering. 5¢.
- 1264 F. Farm manufacture of unfermented apple juice. 5¢.
- 1374 F. Care of food in the home. 5¢.
- 1424 F. Making vinegar in the home and on the farm. 5¢.
- 1449 F. Selection of cotton fabrics. 5¢.
- 1450 F. Home baking. 5¢.
- 1471 F. Canning fruits and vegetables at home. 5¢.
- 1474 F. Stain removal from fabrics, home methods. 5¢.
- 1497 F. Methods and equipment for home laundering. 5¢.
- 1513 F. Convenient kitchens. 5¢.
- 1530 F. Fitting dresses and blouses. 10¢.
- 1553 F. Planning and recording family expenditures. 5¢.
- 1633 F. Window curtaining. 10¢.

Department Bulletins:

- *469 D. Fats and their economical use in the home. 5¢.
- 1025 D. Studies in the clarification of unfermented fruit juices. 5¢.

Technical Bulletins:

- 8 T. Dietary scales and standards for measuring a family's nutritive needs. 5¢.
- 106 T. A short method of calculating energy, protein, phosphorus, and iron in the diet. 5¢.
- *108 T. Stiffness in fabrics produced by different starches and starch mixtures, and a quantitative method for evaluating stiffness. 10¢.

Department Circulars:

- *2 DC. Sewing for girls' club work. 5¢.
- *207 DC. The paper dress form. 5¢.
- 389 DC. Proximate composition of beef. 5¢.

Circulars:

- 50 C. Proximate composition of fresh fruits. 5¢.
- 146 C. Proximate composition of fresh vegetables. 5¢.

Miscellaneous Circulars:

- 49 MC. Guide to good meals for junior homemakers. 5¢.
- 90 MC. Score cards for judging clothing selection and construction. 5¢.

Miscellaneous Publications:

- 4 MP. Present trends in home sewing. 5¢.
- *31 MP. Changing uses of textile fabrics in clothing and household articles. 10¢.
- 62 MP. Bibliography on the relation of clothing to health. 25¢.
- 78 MP. An annotated list of literature references on garments, sizes, and body measurements. 10¢.
- 113 MP. Adequate diet for families with limited incomes. 5¢.

Leaflets:

- *11 L. Children's rompers. 5¢.
- 24 L. Sun suits for children. 5¢.
- 26 L. Dresses for the little girl. 5¢.
- 34 L. Trichinosis: A disease caused by eating raw pork. 5¢.
- 52 L. Suits for small boys. 5¢.
- 54 L. Play suits for winter. 5¢.
- 63 L. Ensembles for sunny days. 5¢.
- 66 L. Rabbit recipes. 5¢.
- 74 L. Boning lamb cuts. 5¢.
- 76 L. Slip covers. 5¢.
- 79 L. Rompers. 5¢.
- 80 L. Dresses for little girls. 5¢.
- 81 L. Cooking cured pork. 5¢.

Yearbook Separates:

- 991 Y. Meat problems yield to studies by State and Federal workers. 5¢.
- 1223 Y. Child-welfare studies important in work of Home Economics Bureau. 5¢.
- 1224 Y. Clothing costs among 1,425 farm families reported in survey. 5¢.
- 1225 Y. Cooking time varies with style in which beef roasts are cut. 5¢.
- 1226 Y. Cottonseed flour rich in vitamin C, experiments show. 5¢.
- 1227 Y. Fabrics for children's play suits tested for resistance to weather. 5¢.
- 1228 Y. Meat keeping in home refrigerators studied in varying conditions. 5¢.
- 1229 Y. Oven canning tests show factors governing heat-penetration rates. 5¢.

Yearbook Separates—Continued.

- 1230 Y. Standard specifications for household buying are being developed. 5¢.
 1231 Y. Textile buying for the home would be aided by system of labeling. 5¢.

Miscellaneous:

- Aunt Sammy's Radio Recipes (Cookbook) 1931. 10¢.

HORSES AND MULES

(See also under *Insects, Diseases, Feeds, and Feeding*)

Farmers' Bulletins:

- 619 F. Breeds of draft horses. 5¢.
 779 F. How to select a sound horse. 5¢.
 803 F. Horse-breeding suggestions for farmers. 5¢.
 952 F. Breeds of light horses. 5¢.
 1030 F. Feeding horses. 5¢.
 1146 F. Dourine of horses. 5¢.
 1341 F. Mule production. 5¢.
 1368 F. Breaking and training colts. 5¢.
 1419 F. Care and management of farm work horses. 5¢.
 1493 F. Lice, mange, and ticks of horses, and methods of control and eradication. 5¢.
 1503 F. Horse bots and their control. 5¢.
 1535 F. Farm horseshoeing. 5¢.

Department Bulletins:

- *929 D. Cottonseed meal for horses. 5¢.

Department Circulars:

- 199 DC. Breeding Morgan horses at U. S. Morgan Horse Farm. 10¢.

Circulars:

- 148 C. Parasites and parasitic diseases of horses. 15¢.

Yearbook Separates:

- *692 Y. Stallion legislation and horsebreeding industry. 5¢.
 982 Y. Horses used in big teams give flexible power and cut costs. 5¢.
 1122 Y. Horses and mules now raised are much fewer than replacement needs. 5¢.

Miscellaneous:

- *Special report on diseases of the horse. 1924. \$1.

INSECTICIDES, FUNGICIDES, AND DISINFECTANTS**Farmers' Bulletins:**

- 799 F. Carbon disulphid as an insecticide. 5¢.
 926 F. Some common disinfectants. 5¢.
 954 F. Disinfection of stables. 5¢.
 994 F. Commercial Bordeaux mixtures, how to calculate their value. 5¢.
 1285 F. Lime-sulphur concentrates, preparation, uses, and designs for plants. 5¢.
 1666 F. Insecticides, equipment, and methods for controlling orchard insect pests. 25¢.
 1676 F. Lubricating-oil sprays for use on dormant fruit trees. 5¢.

Department Bulletins:

- *197 D. Homemade lime-sulphur concentrate. 5¢.
 *707 D. Results of experiments with miscellaneous substances against bedbugs, cockroaches, clothes moths, carpet beetles. 5¢.
 *750 D. Methods for preparing commercial grade of calcium arsenate. 5¢.
 795 D. Adulteration of insect powder with powdered daisy flowers. 5¢.
 824 D. Insect powder [or pyrethrum powder]. 20¢.
 893 D. Experiments on toxic action of certain gases on insects, seeds, and fungi. 5¢.
 1115 D. Chemical changes in calcium arsenate during storage. 10¢.
 *1146 D. Influence of copper sprays on yield and composition of Irish potato tubers. 5¢.
 1147 D. Chemical, physical, and insecticidal properties of arsenicals. 10¢.
 1178 D. Bordeaux-oil emulsion. 5¢.
 *1201 D. Plants tested for or reported to possess insecticidal properties. 10¢.
 *1217 D. Mixing emulsified mineral lubricating oils with deep-well waters and lime-sulphur solutions. 5¢.
 1308 D. Chemical and physical methods for control of saponified cresol solutions. 5¢.
 1312 D. Loss of nicotine from nicotine dust during storage. 5¢.
 *1332 D. Emulsions of wormseed oil and of carbon disulfide for destroying larvae of the Japanese beetle in roots of perennial plants. 5¢.
 *1371 D. Effectiveness against San Jose scale of dry substitutes for liquid lime-sulphur. 5¢.
 1389 D. Deterioration of commercially packed chlorinated lime. 5¢.

Publications preceded by an asterisk (*) are not for free distribution.

Technical Bulletins:

- 80 T. Tests of blowfly baits and repellents during 1926. 5¢.
 111 T. Fish oil as an adhesive in lead-arsenate sprays. 10¢.
 162 T. Tests of various aliphatic compounds as fumigants. 10¢.
 198 T. Relative insecticidal value of commercial grades of pyrethrum. 5¢.
 253 T. Petroleum oils and oil emulsions as insecticides and their use against the San Jose scale on peach trees in the South. 10¢.

Department Circulars:

- 367 DC. Airplane dusting in control of malaria mosquitoes. 5¢.
 380 DC. Calcium cyanide as fumigant for ornamental greenhouse plants. 5¢.

Circulars:

- 7 C. Apparatus for rapid vaporization of carbon disulphide. 5¢.
 116 C. Calcium arsenate dusting as a cause of aphid infestation. 5¢.
 119 C. Relation of dust fungicides to flow of small grains through drills and to drill injury. 5¢.
 175 C. Experiments for the control of the San Jose scale with lubricating-oil emulsions in the Pacific Northwest. 5¢.
 198 C. United States Food and Drug Administration methods of testing antiseptics and disinfectants. 10¢.

Yearbook Separates:

- *1011 Y. Fungicide as term commonly used has 3 definitions. 5¢.
 1115 Y. Insecticidal properties of fluorine open wide field for investigations. 5¢.
 1199 Y. Spray residue removal by latest methods is an economic benefit. 5¢.

INSECTS: ANIMAL

(See also under name of animal)

Farmers' Bulletins:

- 798 F. Sheep-tick and its eradication by dipping. 5¢.
 857 F. Screw worms and other maggots affecting animals. 5¢.
 897 F. Fleas and their control. 5¢.
 909 F. Cattle-lice and their eradication. 5¢.
 980 F. Spinose ear tick, and methods of treating infested animals. 5¢.
 1057 F. Cattle-fever ticks, and methods of eradication. 5¢.
 1097 F. Stable fly, how to prevent its annoyance and its losses to livestock. 5¢.
 1493 F. Lice, mange, and ticks of horses, control and eradication methods. 5¢.
 1596 F. Cattle grubs or heel flies, with suggestions for their control. 5¢.
 1625 F. Tick fever. 5¢.

Department Bulletins:

- *1218 D. Horseflies, biologies and relation to western agriculture. 10¢.
 1369 D. Cattle grubs or ox warbles, their biologies and suggestions for control. 25¢.
 1472 D. Chemotropic tests with screw-worm fly. 5¢.

Technical Bulletins:

- 52 T. Classification of higher groups and genera of coccid family Margarodidae. 50¢.

Department Circulars:

- 184 DC. State laws and court decisions relating to cattle-tick eradication. 5¢.
 *204 DC. Rat mite attacking man. 5¢.

Circulars:

- 18 C. Experimental dissemination of tabanid egg parasite *Phanurus emersoni* Girault and biological notes on the species. 5¢.

Miscellaneous Publications:

- 25 MP. Calendar of livestock parasites. 5¢.

Yearbook Separates:

- 1245 Y. Insects harm livestock to an extent that is frequently unsuspected. 5¢.
 1246 Y. Ticks are carriers of diseases of man and of the higher animals. 5¢.
 1160 Y. Cattle ticks can be eradicated by system of vacating pastures. 5¢.

INSECTS: FOREST AND SHADE TREES**Farmers' Bulletins:**

- 701 F. The bagworm: An injurious shade-tree insect. 5¢.
 705 F. The catalpa sphinx. 5¢.
 708 F. The leopard moth, a dangerous imported insect enemy of shade trees. 5¢.

Farmers' Bulletins—Continued.

- 763 F. Orchard bark beetles and pinhole borers and how to control them. 5¢.
 *1076 F. California oak worm. 5¢.
 1169 F. Insects injurious to deciduous shade trees and their control. 5¢.
 1259 F. Sawfly injurious to young pines. 5¢.
 1477 F. Preventing damage by *Lyctus* powder-post beetles. 5¢.
 1586 F. The southern pine beetle: A serious enemy of pines in the South. 5¢.
 1623 F. Methods of controlling the gypsy moth and the brown-tail moth. 5¢.

Department Bulletins:

- *95 D. Insects damage to cones and seeds of Pacific coast conifers. 5¢.
 *111 D. Sequoia pitch moth, menace to pine in western Montana. 5¢.
 *184 D. Huisache girdler. 5¢.
 *204 D. Report of gypsy-moth work in New England. 30¢.
 *251 D. Calosoma beetle (*Calosoma sycophanta*) in New England. 15¢.
 *480 D. Solid-stream spraying against gypsy moth and brown-tail moth in New England. 15¢.
 *766 D. Study of *Compsilura concinnata*, an important tachinid parasite of gypsy moth and brown-tail moth. 10¢.
 *833 D. Cypress bark scale. 10¢.
 *899 D. Gypsy moth tree-banding material, how to make, use, and apply it. 15¢.
 *1028 D. *Apanteles melanoscelus*, an important parasite of the gypsy moth. 10¢.
 *1066 D. Curculios that attack the young fruits and shoots of walnut and hickory. 10¢.
 1076 D. Biology of the lotus borer. 5¢.
 *1079 D. Experiments with spray solutions for preventing insect injury to green logs. 5¢.
 *1080 D. Effect of low temperature on hatching of gypsy-moth eggs. 5¢.
 *1088 D. *Zygobothria nidicola*, an important parasite of the brown-tail moth. 5¢.
 *1142 D. Barrier factors in gypsy moth tree-banding material. 5¢.
 1182 D. Imported pine sawfly. 5¢.
 *1223 D. European elm scale in the West. 10¢.
 1363 D. Host relations of *Compsilura concinnata* Meigen, important tachinid parasite of gypsy moth and brown-tail moth. 5¢.
 1429 D. Parasites of *Popillia japonica* in Japan and Chosen (Korea), and their introduction into United States. 15¢.
 *1469 D. Satin moth, a recently introduced pest. 10¢.
 *1487 D. Study in hyperparasitism, with particular reference to parasites of *Apanteles melanoscelus* (Ratzeburg). 10¢.
 1490 D. Defects in timber caused by insects. 15¢.

Technical Bulletins:

- 3 T. Relation of highway slash to infestations by western pine beetle in standing timber. 5¢.
 48 T. Western cedar pole borer or powder worm. 5¢.
 130 T. The chestnut curculios. 10¢.
 137 T. The pandora moth, a periodic pest of western pine forests. 5¢.
 195 T. Control of the mountain pine beetle in lodgepole pine by the use of solar heat. 5¢.

Department Circulars:

- 411 DC. Relation of insects to slash disposal. 5¢.

Circulars:

- 176 C. Observations on the satin moth and its natural enemies in central Europe. 5¢.
 189 C. Control of the satin moth by spraying in alternate years. 5¢.
 204 C. An air-pressure extension brush for applying creosote to gypsy moth egg clusters. 5¢.

Miscellaneous Publications:

- 74 MP. An annotated list of the important North American forest insects. 10¢.

Yearbook Separates:

- 1243 Y. Mountain pine beetle, epidemic in northwest fought by two methods. 5¢.
 1244 Y. Pine-beetle epidemics are now controlled by burning standing trees. 5¢.

INSECTS: FRUIT

(See also under name of fruit)

Farmers' Bulletins:

- 650 F. San Jose scale and its control. 5¢.
 662 F. Apple-tree tent caterpillar. 5¢.
 722 F. Leaf blister mite of pear and apple. 5¢.

Farmers' Bulletins—Continued.

- 723 F. Oyster-shell scale and scurvy scale. 5¢.
 *860 F. Cranberry insect problems and suggestions for solving them. 5¢.
 1128 F. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape. 10¢.
 1257 F. Insects injurious to mango in Florida and how to combat them. 5¢.
 1261 F. Avocado: Its insect enemies and how to combat them. 5¢.
 1270 F. Important apple insects. 15¢.
 1286 F. Red-necked raspberry cane borer. 5¢.
 1309 F. Control of the common mealybug on citrus in California. 5¢.
 1326 F. Control of codling moth in Pacific Northwest. 10¢.
 1557 F. Insects attacking the peach in the South and how to control them. 10¢.
 1666 F. Insecticides, equipment, and methods for controlling orchard insect pests. 25¢.

Department Bulletins:

- *88 D. Control of codling moth in Pecos Valley, N. Mex. 5¢.
 *161 D. Mediterranean fruit fly in Bermuda. 5¢.
 *173 D. Life history and habits of pear thrips in California. 15¢.
 *189 D. Studies of codling moth in central Appalachian region. 10¢.
 *252 D. Life history of codling moth in Maine. 10¢.
 *262 D. Parandra borer as orchard enemy. 5¢.
 *351 D. Terrapin scale, important insect enemy of peach orchards. 15¢.
 *598 D. Orchard injury by the hickory tiger moth. 5¢.
 640 D. The Mediterranean fruit fly. 15¢.
 *774 D. Life history and habits of mealy plum aphids. 5¢.
 *885 D. Black fly of citrus and other subtropical plants. 20¢.
 *911 D. Life history of the grape-berry moth in northern Ohio. 10¢.
 *914 D. The red-banded leaf roller. 5¢.
 *932 D. Life history of the codling moth in the Grand Valley of Colorado. 25¢.
 *959 D. Experiments and suggestions for the control of the codling moth in the Grand Valley of Colorado. 10¢.
 *965 D. Control of the Argentine ant in California citrus orchards. 10¢.
 *1035 D. The red spider on the avocado. 10¢.
 *1040 D. Control of citrophilus mealybug. 5¢.
 *1081 D. Biology of the papaya fruit fly in Florida. 5¢.
 *1093 D. Gypsy moth on cranberry bogs. 10¢.
 *1235 D. Life history of codling moth in Yakima Valley of Washington. 15¢.
 *1238 D. Canker-worms. 10¢.
 *1273 D. Bud moth. 5¢.

Technical Bulletins:

- 20 T. Study of Phyloxera infestation in California as related to types of soils. 25¢.
 25 T. Experiments for control of European red mite and other fruit-tree mites. 10¢.
 42 T. Life history of the codling moth in Delaware. 15¢.
 83 T. Pacific-flathead borer. 15¢.
 86 T. Imported insect enemies of the gypsy moth and the brown-tail moth. 50¢.
 89 T. Biology of European red mite in Pacific Northwest. 15¢.
 90 T. Life history of the codling moth in northern Georgia. 20¢.
 152 T. Life history of the oriental peach moth in Georgia. 5¢.
 176 T. The citrus mite and its control. 15¢.
 188 T. Life history and habits of the plum curculio in the Georgia peach belt. 25¢.
 215 T. A biological study of *Trichogramma minutum* Riley as an egg parasite of the oriental fruit moth. 5¢.
 242 T. Biology of the Indian-meal moth on dried fruits in California. 5¢.
 253 T. Petroleum oils and oil emulsions as insecticides, their use against the San Jose scale on peach trees in the South. 10¢.
 255 T. Life history of the codling moth in the Rogue River Valley of Oregon. 10¢.

Department Circulars:

- 263 DC. Preliminary report on control of San Jose scale with lubricating-oil emulsions. 5¢.

Circulars:

- 106 C. Tree hoppers and their control in the orchards of the Pacific Northwest. 5¢.
 *109 C. Parasitism of the Mediterranean fruit fly in Hawaii, 1922-1924. 5¢.
 123 C. Comparative study of dusting by means of airplane and ground machine for control of blueberry maggot. 5¢.
 157 C. Fig insects in California. 20¢.
 172 C. The control of the lesser peach borer with paradichlorobenzene solutions. 5¢.

Circulars—Continued.

- 175 C. Experiments for the control of the San Jose scale with lubricating-oil emulsions in the Pacific Northwest. 5¢.
 196 C. Blueberry maggot and its control in eastern Maine. 5¢.
Yearbook Separates:
 1202 Y. Mediterranean fruit-fly eradication program is making rapid progress. 5¢.
 1203 Y. Mexican fruit-fly invasion fought by novel eradication plan. 5¢.
 1239 Y. Strawberry weevil may be controlled by using sulphur and arsenate. 5¢.

INSECTS: GARDEN, FLOWER, VEGETABLE, AND MISCELLANEOUS*(See also under name of flower or plant)***Farmers' Bulletins:**

- 846 F. Tobacco beetle and how to prevent damage by it. 5¢.
 940 F. Common white grubs. 5¢.
 959 F. Spotted garden slug. 5¢.
 1252 F. Sawflies injurious to rose foliage. 5¢.
 1275 F. Weevils in beans and peas. 5¢.
 1306 F. Insect enemies of chrysanthemums. 5¢.
 1362 F. Insects injurious to ornamental greenhouse plants. 15¢.
 1371 F. Garden vegetable diseases and insects. 10¢.
 1489 F. Green June beetle larva in tobacco-plant beds. 5¢.
 1495 F. Insect enemies of the flower garden. 10¢.
 1514 F. Control of sugar-beet nematode by crop rotation. 5¢.
 1561 F. Porto Rican mole cricket. 5¢.
 1569 F. Earthworms as pests and otherwise. 5¢.
 1595 F. Bollworm or corn ear worm as a cotton pest. 5¢.
 1624 F. Mexican bean beetle in the East and its control. 5¢.
 1668 F. The red harvest ant and how to subdue it. 5¢.

Department Bulletins:

- *264 D. Violet rove-beetle. 5¢.
 *491 D. The melon fly in Hawaii. 25¢.
 *535 D. Horse-radish flea beetle; life history and distribution. 5¢.
 *703 D. Miscellaneous truck-crop insects in Louisiana: 1. Insects injurious to the globe artichoke in Louisiana. 10¢.
 *892 D. The beet leaf beetle. 15¢.
 *966 D. European horse-radish webworm. 5¢.
 *967 D. Results of work on blister beetles in Kansas. 10¢.
 *1103 D. Summary of insect conditions throughout the United States during 1921. 10¢.
 1107 D. Lead cable borer or short-circuit beetle in California. 15¢.
 *1154 D. Feeding habits of the Japanese beetle which influence its control. 5¢.
 *1225 D. Camphor thrips. 10¢.
 1243 D. Studies of Mexican bean beetle in the Southeast. 20¢.
 *1324 D. Oviposition response of insects. 5¢.
 *1357 D. Strawberry rootworm, a new pest on greenhouse roses. 10¢.

Technical Bulletins:

- 173 T. The bluegrass webworm. 10¢.
 206 T. Ecological studies of the beet leafhopper. 30¢.
 231 T. A revision of the American species of *Empoasca* [leaf hoppers] known to occur north of Mexico. 15¢.
 278 T. The chemotropic responses of the house fly, the green-bottle flies, and the black blowfly. 5¢.

Department Circulars:

- 274 DC. Dusting for cotton boll weevil. 5¢.
 363 DC. Japanese beetles. 25¢.

Circulars:

- 75 C. The true cricket, a serious cotton pest in California. 5¢.
 116 C. Calcium arsenate dusting as a cause of aphid infestation. 15¢.
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 145 C. *Tiphia popillavora* Rohwer, a parasite of the Japanese beetle. 10¢.
 168 C. Insects injurious to agriculture in Japan. 20¢.

Leaflets:

- 2 L. Cutworms in the garden. 5¢.

Yearbook Separates:

- *704 Y. Practical use of insect enemies of injurious insects. 5¢.
 *786 Y. How weevils get into beans. 5¢.
 842 Y. Killing boll weevils with poison dust. 5¢.
 942 Y. Nemas and recent progress in nematology research. 5¢.
 1235 Y. Beet leaf hopper's annual migrations studied in desert breeding areas. 5¢.
 1236 Y. Celery leaf tier has become serious pest in parts of Florida. 5¢.
 1240 Y. Vegetable weevil, a new invader, spreading in South and California. 5¢.

Yearbook Separates—Continued.

- 1241 Y. Nursery stock rid of Japanese beetles by hot-water treatment. 5¢.
 1242 Y. Insects captured by airplane found at surprising heights. 5¢.

INSECTS: GRAIN, FORAGE, AND FIBER CROPS*(See also under name of grain, forage, etc.)***Farmers' Bulletins:**

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 725 F. Wireworms destructive to cereal and forage crops. 5¢.
 731 F. True army worm and its control. 5¢.
 739 F. Cutworms and their control in corn and other cereal crops. 5¢.
 747 F. Grasshopper control in relation to cereal and forage crops. 5¢.
 752 F. Fall army worm, or grass worm, and its control. 5¢.
 *762 F. False chinch-bug and measures for controlling it. 5¢.
 835 F. How to detect insect outbreaks and save grain crops. 5¢.
 875 F. Rough-headed cornstalk beetle in Southern States and its control. 5¢.
 891 F. Corn-root aphid and methods of controlling it. 5¢.
 971 F. Control of clover-flower midge. 5¢.
 1003 F. How to control billbugs destructive to cereal and forage crops. 5¢.
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 1217 F. Green bug or spring aphid, how to prevent its periodical outbreak. 5¢.
 1258 F. Webworms injurious to cereal and forage crops and their control. 5¢.
 1260 F. Stored-grain pests. 10¢.
 1329 F. Boll-weevil problem. 5¢.
 1483 F. Control of insect pests in stored grain. 10¢.
 1498 F. Chinch bug, how to fight it. 10¢.
 1548 F. European corn borer, present status and methods of control. 10¢.
 1566 F. Sorghum midge, with control suggestions. 5¢.
 1595 F. Bollworm or corn ear worm as a cotton pest. 5¢.
 1627 F. The Hessian fly and how losses from it can be avoided. 5¢.
 1657 F. The Great Basin wireworm in the Pacific Northwest. 5¢.

Department Bulletins:

- *112 D. Oat aphid. 5¢.
 *113 D. Lesser bud moth. 5¢.
 *293 D. Grasshopper outbreak in New Mexico during summer of 1913. 5¢.
 *443 D. New Mexico range caterpillar and its control. 5¢.
 *689 D. Southern green plant bug. 10¢.
 734 D. Nematode galls as factor in marketing and milling wheat. 5¢.
 *779 D. The grain bug. 5¢.
 *808 D. Studies on life history and habits of jointworm flies of genus *Harmolita*, with recommendations for control. 5¢.
 *812 D. The clover and alfalfa seed chalcis fly. 10¢.
 *834 D. Black grain-stem sawfly of Europe in United States. 5¢.
 *841 D. The western grass-stem sawfly. 10¢.
 872 D. Insect control in flour mills. 15¢.
 *891 D. Green June beetle. 20¢.
 *1008 D. Rate of multiplication of the Hessian fly. 5¢.
 1016 D. Bionomics of the chinch bug. 5¢.
 *1085 D. Broad-nosed grain weevil. 5¢.
 *1229 D. Stem nematode *Tylenchus dispaci* on wild hosts in Northwest. 5¢.
 *1313 D. Fumigation against grain weevils with various volatile organic compounds. 10¢.
 *1332 D. Emulsion of wormseed oil and of carbon disulfide for destroying larvae of the Japanese beetle in roots of perennial plants. 5¢.
 *1336 D. Biological studies of green clover worm. 5¢.
 1374 D. Studies of the pink bollworm in Mexico. 15¢.
 *1393 D. Granary weevil. 10¢.
 1397 D. Pink bollworm with special reference to steps taken by Department of Agriculture to prevent its establishment in United States. 10¢.
 1428 D. The cadelle. 10¢.

Technical Bulletins:

- 19 T. Parasites of pink bollworm in Hawaii. 5¢.
 31 T. Larger sod webworm. 5¢.
 34 T. The fall army worm. 25¢.
 53 T. Scouting, quarantine, and control for European corn borer, 1917-1926. 30¢.
 81 T. Hessian fly in California. 5¢.

Technical Bulletins—Continued.

- 90 T. Life history of the codling moth in northern Georgia. 20¢.
 138 T. Studies on the fall army worm in the Gulf Coast district of Texas. 10¢.
 157 T. Western grass stem sawfly. 5¢.
 161 T. Life history and control of Mormon cricket. 10¢.
 173 T. The bluegrass webworm. 10¢.
 190 T. A study of the lesser migratory grasshopper. 10¢.
 230 T. *Macrocentrus gifuensis* Ashmead, a polyembryonic braconid parasite in the European corn borer. 15¢.
 233 T. *Apanteles thompsoni* Lyle, a braconid parasite of the European corn borer. 10¢.

Department Circulars:

- *172 DC. The range crane-flies in California. 5¢.
 *210 DC. Dispersion of the boll weevil in 1921. 5¢.
 266 DC. Dispersion of boll weevil in 1922. 5¢.
 *288 DC. Puss caterpillar and the effects of its sting on man. 5¢.
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Circulars:

- 51 C. The chinch bug in relation to St. Augustine grass. 5¢.
 165 C. Plowing as a control measure for the European corn borer in western New York. 10¢.
 194 C. Manure piles and feed lots as a source of European corn borer reinfestation. 5¢.
 197 C. Preliminary report upon the infestation and general status of the European corn borer in western New York. 5¢.

Leaflets:

- 12 L. The striped blister beetle on soy beans. 5¢.

Yearbook Separates:

- 1022 Y. Nemas sometimes aid man in his field to control insect pests. 5¢.

INSECTS: HOUSEHOLD**Farmers' Bulletins:**

- 627 F. House centipede. 5¢.
 658 F. Cockroaches. 5¢.
 734 F. Flytraps and their operations. 5¢.
 740 F. House ants, kinds and methods of control. 5¢.
 754 F. The bedbug. 5¢.
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 1655 F. The control of moths in upholstered furniture. 10¢.
 1665 F. The silverfish as a pest of the household. 5¢.

Department Bulletins:

- *200 D. Maggot trap in practical use, experiment in house-fly control. 5¢.
 *1098 D. Impounding water in a bayou to control breeding of malaria mosquitoes. 15¢.
 1231 D. Tests of methods of protecting woods against termites or white ants. 5¢.
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Technical Bulletins:

- 95 T. The meal worms. 10¢.

Leaflets:

- 31 L. Termites in buildings. 5¢.

INSURANCE, FIRE AND CROP**Department Bulletins:**

- 530 D. Organization and management of farmers' mutual fire-insurance company. 5¢.
 786 D. Prevailing plans and practices among farmers' mutual fire-insurance companies. 5¢.
 840 D. A system of records for local farmers' mutual fire-insurance companies. 5¢.
 912 D. Hail insurance on farm crops in United States. 10¢.
 1043 D. Crop insurance; risks, losses and principles of protection. 5¢.

Department Circulars:

- 77 DC. Suggestions for a State law providing for the organization of farmers' mutual fire-insurance companies. 5¢.

Circulars:

- 54 C. Development and problems in farmers' mutual fire-insurance. 5¢.

Yearbook Separates:

- *697 Y. Farmers' mutual fire-insurance. 5¢.

INVENTORY OF SEEDS AND PLANTS IMPORTED

*1 Nos. 1 to 1000, 1899. 5¢.	*66 Jan. 1-Mar. 31, 1921. 15¢.
*2 Nos. 1001 to 1900, 1899. 5¢.	*67 Apr. 1-June 30, 1921. 15¢.
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*50 Jan. 1-Mar. 31, 1917. 20¢.	*87 Apr. 1-June 30, 1926. 10¢.
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*52 July 1-Sept. 30, 1917. 15¢.	*89 Oct. 1-Dec. 31, 1926. 10¢.
*53 Oct. 1-Dec. 31, 1917. 15¢.	90 Jan. 1-Mar. 31, 1927. 10¢.
*54 Jan. 1-Mar. 31, 1917. 15¢.	91 Apr. 1-June 30, 1927. 10¢.
*55 Apr. 1-June 30, 1918. 10¢.	92 July 1-Sept. 30, 1927. 10¢.
*56 July 1-Sept. 30, 1918. 10¢.	93 Oct. 1-Dec. 31, 1927. 10¢.
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IRRIGATION

Farmers' Bulletins:

*864 F.	Practical information for beginners in irrigation. 5¢.
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*1110 D.	Farmers' short-box measuring flume. 5¢.
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Technical Bulletins:

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67 T.	Silt in Colorado River and its relation to irrigation. 20¢.
82 T.	Mutual irrigation companies. 10¢.
144 T.	Irrigated crop rotations in southern Montana. 10¢.
150 T.	Flow of water in riveted steel and analogous pipes. 30¢.
177 T.	Financial settlements of defaulting irrigation enterprises. 10¢.
185 T.	Irrigation requirements of the arid and semiarid lands of the Southwest. 15¢.
200 T.	Irrigation requirements of the arid and semiarid lands of the Columbia River Basin. 15¢.
254 T.	Irrigation districts, their organization, operation, and financing. 15¢.
264 T.	Occurrence of boron in the irrigation waters of southern California and its injurious effects on plants. 20¢.
271 T.	Evaporation from free water surfaces. 25¢.

Circulars:

- 72 C. Financial settlements of defaulting irrigation enterprises. 10¢.
 188 C. Irrigated crop rotation in western South Dakota. 10¢.
 195 C. Tests of spray irrigation equipment. 10¢.

Miscellaneous Publications:

- 103 MP. Summary of irrigation-district statutes of Western States. 20¢.

Yearbook Separates:

- *703 Y. Pumping for irrigation on the farm. 5¢.
 950 Y. Alkali in irrigated districts. 5¢.
 1016 Y. Irrigation farming often turns on ways of applying water. 5¢.
 1136 Y. Boron in irrigation water may hurt citrus and walnut orchards. 5¢.

LANDS

(See also under *Farm Management, Reclamation Projects*)

Farmers' Bulletins:

- 1526 F. Clearing land of brush and stumps. 10¢.

Department Bulletins:

- 874 D. Farm land values in Iowa. 10¢.
 *1224 D. Relation of land income to land value. 15¢.
 1257 D. Land reclamation policies in the United States. 5¢.

Technical Bulletins:

- 172 T. Taxation of farm property. 15¢.
 256 T. Suitability of brush lands in the intermountain region for the growth of natural or planted western yellow pine forests. 25¢.

Circulars:

- 15 C. Farm real-estate situation, 1926-27. 10¢.
 *60 C. Farm real-estate situation, 1927-28. 10¢.
 *101 C. Farm real-estate situation, 1928-29. 15¢.
 160 C. Economic aspects of land settlement in the cut-over region of the Lake States. 20¢.
 178 C. Artificial reseeding on western mountain range lands. 15¢.
 209 C. The farm real-estate situation, 1930-31. 15¢.

Miscellaneous publications:

- 97 MP. Land utilization and the farm problem. 25¢.

Yearbook Separates:

- *771 Y. Arable land in the United States. 5¢.
 *896 Y. Utilization of our lands for crops, pasture, and forests. 15¢.

LAWS, RULES, REGULATIONS, ETC.**Department Circulars:**

- 251 DC. Federal legislation, regulations and rulings affecting land-grant colleges and experiment stations. 10¢.

Miscellaneous Circulars:

- 14 MC. State sanitary requirements governing admission of livestock, rev. 1930. 15¢.
 *22 MC. Naval stores act, and regulations for its enforcement, effective Mar. 1, 1924. 5¢.
 Supplements 1 and 3 to above publication, 5¢ each.
 67 MC. Warehouseman and United States warehouse act. 5¢.
 109 MC. Federal legislation and regulations relating to the improvement of Federal-aid roads and national-forest roads and trails. 10¢.

Miscellaneous publications:

- 48 MP. Food, Drug, and Insecticide Administration of the Department of Agriculture. 10¢.
 80 MP. Summary of State and Territorial quarantines affecting interstate shipments. 20¢.
 103 MP. Summary of irrigation-district statutes of the Western States. 20¢.

Leaflets:

- 67 L. Beef grading and stamping service. 5¢.

Yearbook Separates:

- 1142 Y. Labels on food packages a safe guide to buyer if text is carefully read. 5¢.
 1143 Y. Food and drugs imported are tested at ports for purity and labeling. 5¢.
 1144 Y. Labels on veterinary drug preparations should be studied. 5¢.
 1162 Y. Federal meat inspection protects consumers and locates animal diseases. 5¢.

Miscellaneous:**Food and Drug Administration: Service and Regulatory Announcements.****Caustic poison:**

- No. 1. Regulations for enforcement of caustic act. 1927. 5¢.
 No. 2. Acceptable antidotes for dangerous caustic or corrosive substances covered by Federal caustic act. 1928. 5¢.

Miscellaneous—Continued.**Food and Drug Administration—Continued.****Food and drug:**

- No. 1. Regulations for enforcement of the Federal food and drug act. 1927. 5¢.
- No. 2. Definitions and standards for food products. 1927. 5¢. Supplements 1 and 2 to above publication, 5¢ each.
- No. 3. Certification of coal-tar food colors. 1927. 5¢. Supplement 1. 5¢.

Import milk:

- No. 1. Regulations for enforcement of the Federal import milk act. 5¢.

Laws and regulations relating to game and fur-bearing animals and birds in Alaska, 1931. (Alaska Game Commission Circular 8.) 10¢.

LEATHER, HIDES, TANNING**Farmers' Bulletins:**

- 1055 F. County hides and skins; skinning, curing, marketing. 10¢.
- 1334 F. Home tanning of leather and small fur skins. 5¢.
- 1523 F. Leather shoes, selection and care. 5¢.

Department Bulletins:

- 1168 D. Wearing qualities of shoe leather. 10¢.

Technical Bulletins:

- 169 T. The wearing quality and other properties of vegetable-tanned and chrome-retanned sole leather, 5¢.

Leaflets:

- 69 L. Preservation of leather bookbindings. 5¢.

Yearbook Separates:

- 1033 Y. Belt failure often caused by neglect or faulty installation. 5¢.
- 1034 Y. Harness life can be doubled or trebled by cleaning and repairing. 5¢.
- 1116 Y. Hides and skins have potential value often lost by mishandling. 5¢.
- 1212 Y. Hides and skins require prompt thorough curing to bring best prices. 5¢.
- 1217 Y. Leather injured by mud, water, and heat, preserved by grease. 5¢.

LIVESTOCK

(See also under name of *Animal, Diseases, Feeds, Feeding, and Insects*)

Farmers' Bulletins:

- 1069 F. Tuberculosis in livestock, detection, control, eradication 10¢.
- 1428 F. Saving livestock from starvation on southwestern ranges. 5¢.
- 1502 F. Cooperative livestock shipping associations. 5¢.

Department Bulletins

- 589 D. Twenty-eight-hour law regulating the interstate transportation of livestock, its purpose, requirement, and enforcement. 10¢.
- *1150 D. Accounting records and business methods for livestock shipping associations. 10¢.
- 1360 D. Market classes and grades of livestock. 15¢.

Technical Bulletins:

- *68 T. Ranch organization and methods of livestock production in the Southwest. 25¢.
- 127 T. An economic study of livestock possibilities in the southeastern coastal plain. 20¢.

Department Circulars:

- *228 DC. Livestock industry in South America. 5¢.
- 235 DC. Utility value of purebred livestock. 10¢.

Circulars:

- 86 C. A business analysis of the Producers Livestock Commission Association of National Stockyards, Illinois. 10¢.
- 140 C. Handling livestock during drought. 5¢.
- 142 C. Analysis of the operation of a cooperative livestock concentration point. 10¢.

Miscellaneous Circulars:

- 12 MC. Handbook for better feeding of livestock. 15¢.
- 14 MC. State sanitary requirements governing admission of livestock. 15¢.
- 33 MC. Some tested methods for livestock improvements. 5¢.

Miscellaneous Publications:

- 25 MP. Calendar of livestock parasites. 5¢.
- 28 MP. Livestock review for 1927. 10¢.
- 54 MP. The livestock review for 1928. 10¢.
- 59 MP. Reliability of the tuberculin test. 5¢.
- 66 MP. Economic benefits of eradicating tuberculosis from livestock. 5¢.

Publications preceded by an asterisk (*) are not for free distribution.

Miscellaneous Publications—Continued.

- 81 MP. Recommendations of the Bureau of Animal Industry on problems of livestock production. 5¢.
 132 MP. Rice and its by-products for feeding livestock. 5¢.

Leaflets:

- 1 L. Ways to save young livestock. 5¢.
 38 L. Maintaining the health of livestock in transit. 5¢.

Yearbook Separates:

- *810 Y. Toll of tuberculosis in livestock. 5¢.
 *820 Y. Livestock drought relief work in 1919. 5¢.
 845 Y. Hunting down stock killers. 5¢.
 *866 Y. Livestock associations. 5¢.
 1119 Y. Pastures have wide variation in feeding value for livestock. 5¢.
 1121 Y. Feeds for livestock may sometimes require special preparation. 5¢.
 1165 Y. Livestock are healthier than formerly according to meat-inspection data. 5¢.
 1166 Y. Livestock performance is best indication of true breeding ability. 5¢.
 1177 Y. Livestock parasites in manure can be killed by means of heat generated. 5¢.
 1194 Y. Pasture improvement the first need in strengthening South's livestock industry. 5¢.
 1245 Y. Insects harm livestock to an extent that is frequently unsuspected. 5¢.

Miscellaneous:

- Effect of smelter fumes upon livestock industry in the Northwest. 10¢.

MARKETING, COOPERATIVE**Farmers' Bulletins:**

- 1144 F. Cooperative marketing. 5¢.
 1502 F. Cooperative livestock shipping associations. 5¢.

Department Bulletins:

- *394 D. Survey of typical cooperative stores in United States. 10¢.
 *541 D. Cooperative organization by-laws. 5¢.
 937 D. Cooperative grain marketing, comparative study of method in United States and Canada. 5¢.
 *1095 D. Producers' cooperative milk-distributing plants. 10¢.
 1106 D. Legal phases of cooperative associations. 15¢.
 1237 D. Organization and development of a cooperative citrus-fruit marketing agency. 10¢.
 1261 D. Operating methods and expense of cooperative citrus-fruit marketing agencies. 5¢.
 1266 D. Agricultural cooperation in Denmark. 15¢.
 *1302 D. Development and present status of farmers' cooperative business organizations. 15¢.
 1392 D. Cooperative marketing of cotton. 10¢.
 1414 D. Management problems of cooperative associations marketing fruits and vegetables. 10¢.

Technical Bulletins:

- 40 T. Agricultural cooperative associations, marketing and purchasing, 1925. 20¢.
 57 T. Cooperative marketing of livestock in United States by terminal association. 25¢.
 63 T. Cooperative marketing of grain in western Canada. 20¢.
 179 T. Cooperative marketing of fluid milk. 20¢.

Department Circulars:

- 397 DC. Farmers' cooperative business study, the Staple Cotton Cooperative Association. 10¢.
 403 DC. Business set-up of a cooperative marketing association. 5¢.

Circulars:

- 10 C. Joint use of sales organization by 2 cooperative associations. 10¢.
 80 C. Organization and management problems of cooperative oil associations in Minnesota. 10¢.
 87 C. Problems in cooperation and experiences of farmers in marketing potatoes. 5¢.
 94 C. Farmers' cooperative associations in the United States, 1929. 15¢.
 100 C. Business analysis of the tobacco growers' cooperative association. 25¢.
 121 C. Cooperative marketing and purchasing, 1929-1930. 10¢.
 159 C. Extension work in cooperative marketing. 10¢.

Miscellaneous Circulars:

- *10 MC. Grain futures act, 1922. 10¢.
 51 MC. Farmer and United States warehouse act. 5¢.
 97 MC. Cooperation in agriculture, selected and annotated reading list, with special reference to purchasing, marketing, and credit, including only works printed in English. 15¢.

Publications preceded by an asterisk (*) are not for free distribution.

Miscellaneous Publications:

14 MP. Pooling as practiced by cooperative marketing associations. 5¢.

Yearbook Separates:

*699 Y. Federated cooperative cheese manufacturing and marketing association. 5¢.

MARKETING, GENERAL**Farmers' Bulletins:**

- 1050 F. Handling and loading southern new potatoes. 5¢.
- 1210 F. Measuring and marketing farm timber. 10¢.
- 1266 F. Preparing peaches for market. 5¢.
- 1290 F. Bulk handling of grain. 5¢.
- 1291 F. Preparation of fresh tomatoes for market. 5¢.
- 1308 F. Marketing for cowpea-seed crop. 5¢.
- 1316 F. Marketing the early potato crop. 5¢.
- 1377 F. Marketing poultry. 5¢.
- 1378 F. Marketing eggs. 5¢.
- 1457 F. Packing apples in boxes. 5¢.
- 1551 F. Marketing farm produce by parcel post. 10¢.
- 1558 F. Preparation of eastern grapes for market. 5¢.
- 1560 F. Preparing strawberries for market. 5¢.
- 1578 F. Marketing late-crop potatoes. 10¢.
- 1579 F. Containers used in shipping fruits and vegetables. 10¢.
- 1594 F. Preparation of bunched beets, carrots, and turnips for market. 5¢.

Department Bulletins:

- *267 D. Methods of wholesale distribution of fruits and vegetables on large markets. 5¢.
- 274 D. Factors governing successful shipment of red raspberries from Puyallup Valley. 10¢.
- *601 D. Handling and precooling of Florida lettuce and celery. 10¢.
- *688 D. Marketing berries and cherries by parcel post. 5¢.
- *690 D. Marketing practices of Wisconsin and Minnesota creameries. 5¢.
- 977 D. Marketing hay at country points. 5¢.
- 979 D. Marketing hay through terminal markets. 10¢.
- 980 D. Inspection and grading of hay. 5¢.
- 1002 D. Open types of public markets. 5¢.
- *1044 D. Self-service in the retailing of food products. 10¢.
- 1124 D. Marketing of mill feed. 5¢.
- 1206 D. Marketing southern-grown sweet potatoes. 10¢.
- *1242 D. Marketing cabbage. 15¢.
- 1246 D. Market classes and grades of dressed beef. 25¢.
- 1283 D. Marketing and distribution of American-grown Bermuda onions. 10¢.
- 1317 D. Retail marketing of meats, etc. 15¢.
- 1325 D. Marketing onions. 15¢.
- 1362 D. American fruit and produce auctions. 5¢.
- 1411 D. Expense factors in city distribution of perishables. 10¢.
- 1412 D. Marketing lettuce. 15¢.
- 1415 D. Marketing western boxed apples. 20¢.
- *1416 D. Marketing barreled apples. 20¢.
- 1441 D. Methods and practices of retailing meat. 10¢.
- 1442 D. Margins, expenses, and profits in retailing meat. 10¢.
- 1443 D. Consumer habits and preferences in purchase and consumption of meat. 10¢.
- 1445 D. Services in cotton marketing. 10¢.
- 1470 D. Market classes and grades [and also cuts] of dressed lamb and mutton. 15¢.
- 1479 D. Speculative transactions in 1926 May wheat future. 15¢.

Technical Bulletins:

- 73 T. Some factors affecting demand for milk and cream in metropolitan area of New York. 15¢.
- 79 T. Major transactions in 1926 December wheat future. 10¢.
- 115 T. Factors affecting the price of peaches in the New York City market. 15¢.
- 124 T. Some factors affecting the marketing of wool in Australia, New Zealand, Union of South Africa, England, and France, 1929. 25¢.
- 140 T. Investigations on the handling of Bartlett pears from the Pacific coast districts. 10¢.
- 193 T. Experiments on the processing and storing of Deglet Noor dates in California. 15¢.
- 199 T. Trading in corn futures. 20¢.
- 234 T. Marketing apples grown in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia. 10¢.
- 243 T. Transporting and handling milk in tanks. 10¢.
- 249 T. Some factors affecting the viscosity of cream. 25¢.
- 272 T. The marketing and distribution of fruits and vegetables by motor truck. 20¢.

Department Circulars:

- 145 DC. Australia and New Zealand as markets for American fruit. 5¢.
 146 DC. Markets for American fruit in China, with recommendations for American shippers. 10¢.
 300 DC. Commercial cuts of meat. 5¢.

Circulars:

- 90 C. Marketing fresh fruit in Europe. 25¢.
 103 C. Market classes and grades of dressed veal and calf carcasses. 25¢.
 144 C. Farmers' experiences and opinions as factors influencing their cotton marketing methods. 10¢.
 149 C. Marketing the commercial crop of early potatoes. 10¢.

Miscellaneous Circulars:

- 35 MC. Bibliography on marketing of agricultural products. 10¢.
 *51 MC. Efficient methods of retailing meat. 10¢.
 63 MC. Inspection stamp as guide to wholesome meat. 5¢.

Leaflets:

- 67 L. Beef grading and stamping service. 5¢.
 68 L. Roadside markets. 5¢.
 73 L. Is the public market a good civic investment? 5¢.

Yearbook Separates:

- *636 Y. Retail public markets. 5¢.
 663 Y. How Hawaii helps her farmers to market their produce. 5¢.
 *701 Y. Possibilities of market-train service. 5¢.
 *726 Y. Rest rooms for women in marketing centers. 5¢.
 797 Y. How to use market stations. 5¢.
 808 Y. Marketing and purchasing demonstrations in the South. 5¢.
 *809 Y. Federal supervision of livestock markets. 5¢.
 *815 Y. What the farmer should expect from the seedsman. 5¢.
 *860 Y. The farmers' interest in foreign markets. 5¢.
 873 Y. Wheat production and marketing. 10¢.
 *879 Y. The dairy industry. 15¢.
 890 Y. Farm operations. 5¢.
 894 Y. The sheep industry. 15¢.
 916 Y. Hay. 20¢.
 917 Y. Poultry industry. 20¢.
 *930 Y. Marketing fruits and vegetables. 20¢.
 1120 Y. Hog weight affects yield and popularity of market pork cuts. 5¢.
 1169 Y. Scales may be balanced and be very sensitive and yet be inaccurate. 5¢.
 1211 Y. Vat dyes play big part in broadening cotton goods market. 5¢.

MELONS**Farmers' Bulletins:**

- 1145 F. Handling and transportation of cantaloupes. 5¢.
 1394 F. Watermelons. 5¢.
 1468 F. Muskmelons. 10¢.
 1499 F. The melon aphid and its control. 5¢.

Department Bulletin:

- *401 D. Marketing and distribution of western muskmelons in 1915. 15¢.
 *1250 D. Relation between composition of California cantaloupes and their commercial maturity. 5¢.

Department Circulars:

- 217 DC. Anthracnose of muskmelons. 5¢.

Circulars:

- 74 C. Chemical injury to watermelons in transit. 5¢.

Yearbook Separates:

- 1232 Y. Watermelons prove valuable source of vitamins A and C. 5¢.

MUSHROOMS AND OTHER FUNGI**Farmers' Bulletins:**

- 789 F. Mushroom pests and how to control them. 5¢.
 1587 F. Mushroom culture for amateurs. 5¢.

Department Bulletins:

- *175 D. Mushrooms and other common fungi. 30¢.

Circulars:

- 27 C. Some mushroom diseases and their carriers. 5¢.
 143 C. Some common mushrooms and how to know them. 20¢.

Yearbook Separates:

- 1193 Y. Mushroom disease known as "Bubbles" controlled by exclusion and eradication. 5¢.
 1238 Y. Mushroom growing risky without control action for insects and mites. 5¢.

NORTH AMERICAN FAUNA

This is a technical series of the Bureau of Biological Survey devoted principally to revisions of genera of mammals and to biological surveys of States and other major areas. Of interest chiefly to professional biologists.

Following is a list of those available:

- *27. Biological investigations of Athabaska-Mackenzie region. \$1.25.
- *34. Revision of spiny pocket mice. 10¢.
- *36. Revision of American harvest mice, genus *Reithrodontomys*. 20¢.
- 43. Rice rats of North America. 20¢.
- 45. Biological survey of Alabama. 25¢.
- *47. Revision of American pikas. 15¢.
- 48. Voles of the genus *Phenacomys*. 20¢.
- *49. A biological survey of North Dakota. 60¢.
- *50. Revision of the American lemming mice. 10¢.
- *51. A taxonomic review of the American long-tailed shrews. 50¢.
- 52. Revision of the American chipmunks (genera *Tamias* and *Eutamias*). 35¢.
- *53. Mammals of New Mexico. \$1.

NUT CULTURE

Farmers' Bulletins:

- 157 F. Propagation of plants. 5¢.
- *700 F. Pecan culture, with special reference to propagation and varieties. 5¢.
- 995 F. Preventing wood rot in pecan trees. 5¢.
- 1501 F. Nut-tree propagation. 10¢.
- 1654 F. Insects of the pecan and how to combat them. 15¢.
- 1656 F. Peanut Growing. 5¢.
- 1672 F. Diseases of pecans in the Southern States. 10¢.

Department Bulletins:

- *611 D. Walnut blight in eastern United States. 5¢.
- *992 D. Walnut husk-maggot. 5¢.
- *1038 D. Pecan rosette, its histology, cytology, and relations to other chlorotic diseases. 25¢.
- *1102 D. Kernel-spot of pecan and its cause. 5¢.
- *1282 D. Almond varieties in United States. 30¢.
- *1303 D. Pecan nut case-bearer. 5¢.
- 1305 D. Utilization of almonds for various food products. 5¢.
- 1378 D. Relation of soil conditions and orchard management to rosette of pecan trees. 10¢.

Technical Bulletins:

- 130 T. The chestnut curculio. 10¢.

Department Circulars:

- 386 DC. Commercial control of pecan scab. 5¢.
- 412 DC. Dusting with monohydrated copper sulphate and lime for control of pecan scab. 5¢.

Leaflets:

- 71 L. Fertilizers for pecan soils. 5¢.

Yearbook Separates:

- 1004 Y. Nuts promise to be profitable crop in Northern States. 5¢.
- 1196 Y. Pistache nuts are a promising crop for some sections of United States. 25¢.

OATS

Farmers' Bulletins:

- 1581 F. Oats in the North Central States. 5¢.
- 1583 F. Spring-sown red oats. 5¢.
- 1611 F. Oats in the western half of the United States. 5¢.
- 1640 F. Fall-sown oat production. 5¢.
- 1659 F. Oats [spring] in the Northeastern States. 5¢.

Department Bulletins:

- *99 D. Tests of selections from hybrids and commercial varieties of oats. 5¢.
- *629 D. Greenhouse experiments on rust resistance of oat varieties. 5¢.
- *1058 D. Sterility of oats. 5¢.
- *1275 D. Varietal susceptibility of oats to loose and covered smuts. 10¢.
- *1343 D. Improved oat varieties for Corn Belt. 10¢.
- 1351 D. What makes price of oats. 10¢.
- 1481 D. Experiments with fall-sown oats in the South. 10¢.

Technical Bulletins:

- 143 T. Field studies on the rust resistance of oat varieties. 10¢.

Department Circulars:

- *193 DC. Fulghum oats. 5¢.
- *324 DC. Markton, oat variety immune from covered smut. 5¢.
- 353 DC. Improved oat varieties for New York and adjacent States. 5¢.

Circulars:

- 133 C. Methods of eradicating buckthorn (*Rhamnus*) susceptible to crown rust (*Puccinia coronata*) of oats. 10¢.

Miscellaneous Publications:

21 MP. Formaldehyde seed treatment for oat smuts. 5¢.

Yearbook Separates:

1009 Y. Oats of new and improved sorts may now be registered. 5¢.

ONIONS**Farmers' Bulletins:**

354 F. Onion culture. 5¢.

434 F. Home production of onion seeds and sets. 5¢.

1060 F. Onion diseases and their control. 5¢.

Department Bulletins:

1283 D. Marketing and distribution of American-grown Bermuda onions. 10¢.

1325 D. Marketing onions. 15¢.

Department Circulars:

415 DC. Some effects of freezing on onions. 5¢.

Circulars:

135 C. Blemishes and discolorations of market onions. 5¢.

PAPER AND PULP**Department Bulletins:**

*309 D. Zacaton as paper-making material. 5¢.

*322 D. Utilization of American flax straw in paper and fiber-board industry. 5¢.

*404 D. Hemp hurds as paper-making material. 5¢.

*950 D. Regional development of pulpwood resources of the Tongass National Forest, Alaska. 10¢.

*1241 D. How United States can meet its present and future pulpwood requirements. 15¢.

*1298 D. Control of decay in pulp and pulpwood. 25¢.

1485 D. Suitability of American woods for paper pulp. 20¢.

Technical Bulletins:

223 T. Reproduction on pulpwood lands in the northeast. 20¢.

Miscellaneous Publications:

*41 MP. Pulp-timber resources of southeastern Alaska. 15¢.

Leaflets:

57 L. Pulpwood crops in the Northeast. 5¢.

Yearbook Separates:

1213 Y. Paper industry concerns farmer as raw-material producer and consumer. 5¢.

PEACHES**Farmers' Bulletins:**

917 F. Growing peaches—sites and cultural methods. 5¢.

918 F. Peach varieties and their classification. 5¢.

1246 F. Peach borer, how to prevent or lessen its ravages; the paradichlorobenzene treatment. 5¢.

1266 F. Preparing peaches for market. 5¢.

1527 F. Peach brown rot and scab. 5¢.

1557 F. Insects attacking the peach in the South, and how to control them. 10¢.

Department Bulletins:

*298 D. Peach supply and distribution in 1914. 5¢.

*543 D. Control of peach bacterial spot in southern orchards. 5¢.

*796 D. Use of toxic gases as a possible means of control of peach-tree borer. 5¢.

*806 D. Peaches, production estimates, and important commercial districts and varieties. 10¢.

*1482 D. Experiments on control of plum curculio, brown rot, and scab, attacking peach in Georgia. 5¢.

Technical Bulletins:

*58 T. Paradichlorobenzene experiments in the South for peach-borer control. 10¢.

115 T. Factors affecting the price of peaches in the New York City market. 15¢.

152 T. Life history of the oriental peach moth in Georgia. 5¢.

183 T. Life history of the oriental peach moth at Riverton, N. J., in relation to temperature. 10¢.

188 T. Life history and habits of the plum curculio in the Georgia peach belt. 25¢.

196 T. The canning quality of certain commercially important eastern peaches. 10¢.

253 T. Petroleum oils and oil emulsions as insecticides, and their use against the San Jose scale on peach trees in the South. 10¢.

Department Circulars:

395 DC. Oriental peach moth. 10¢.

*420 DC. Peach situation in Southern States, 1927. 15¢.

Circulars:

172 C. Control of the lesser peach borer with paradichlorobenzene solutions. 5¢.

Yearbook Separates:

1015 Y. Peach orchards in Georgia menaced by phony disease. 5¢.

Publications preceded by an asterisk (*) are not for free distribution.

PEANUTS

Farmers' Bulletins:

1656 F. Peanut growing. 5¢.

Department Bulletins:

1401 D. Marketing peanuts. 25¢.

1478 D. Effect of planting distances and time of shelling seed in peanut yields. 5¢.

Department Circulars:

128 DC. Manufacture and use of peanut butter. 5¢.

PEARS

Farmers' Bulletins:

482 F. Pear and how to grow it. 5¢.

Department Bulletins:

*173 D. Life history and habits of pear thrips in California. 15¢.

*822 D. Pears, production estimates and important commercial districts and varieties. 5¢.

Technical Bulletins:

140 T. Investigations on the handling of Bartlett pears from Pacific coast districts. 10¢.

Circulars:

177 C. Control of Botrytis [gray mold] rot of pears with chemically treated wrappers. 5¢.

PERSONNEL

Miscellaneous Circulars:

*4 MC. List of workers in subjects pertaining to agriculture, 1922-23; Pt. 2, State agricultural colleges and experiment stations. 15¢.

*30 MC. Directory of field activities of Bureau of Plant Industry. 10¢.

*34 MC. List of workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1924-25. 15¢.

*45 MC. List of technical workers in Department of Agriculture, 1924-25. 15¢.

*58 MC. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1925-26. 15¢.

*73 MC. List of technical workers in Department of Agriculture, 1926. 15¢.

*80 MC. Directory of field activities of Bureau of Entomology, issued December, 1926. 5¢.

*87 MC. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1923-1927. 20¢.

Miscellaneous Publications:

*1 MP. Directory of field activities of Bureau of Plant Industry. 10¢.

*12 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations. 20¢.

32 MP. List of technical workers in Department of Agriculture and outline of department functions, 1928. 20¢.

*43 MP. List of workers in State agricultural colleges and experiment stations, 1928-29. 20¢.

47 MP. Directory of field activities of the Plant Quarantine and Control Administration. 10¢.

*48 MP. The Food, Drug, and Insecticide Administration of the Department of Agriculture. 10¢.

57 MP. Directory of officials and organizations concerned with the protection of birds and game, 1929. 5¢.

*63 MP. List of technical workers in the Department of Agriculture and outline of the department functions, 1929. 15¢.

64 MP. Directory of field activities of the Bureau of Plant Industry. 15¢.

*67 MP. Workers in subjects pertaining to agriculture in State agricultural colleges and experiment stations, 1929-30. 20¢.

83 MP. Directory of field activities of the Bureau of Entomology. 10¢.

92 MP. Directory of officials and organizations concerned with the protection of birds and game, 1930. 5¢.

93 MP. List of technical workers in the Department of Agriculture and outline of department functions, 1930. 15¢.

100 MP. List of workers in subjects pertaining to agriculture in state agricultural colleges and experiment stations, 1930-31. 20¢.

123 MP. List of technical workers in the Department of Agriculture and outline of department functions, 1931. 25¢.

 Publications preceded by an asterisk (*) are not for free distribution.

PLANTS: BREEDING, PROPAGATION, PRUNING*(See also under name of plant)***Farmers' Bulletins:**

- 157 F. Propagation of plants. 5¢.
- 181 F. Pruning. 5¢.
- 1369 F. Bridge grafting. 5¢.
- 1567 F. Propagation of trees and shrubs. 10¢.

Department Bulletins:

- *104 D. Thrips as pollinators of beet flowers. 5¢.
- *137 D. Some distinctions in our cultivated barleys with reference to their use in plant breeding. 5¢.
- *291 D. Breeding millet and sorgo for drought adaption. 5¢.
- *1134 D. Self-fertilization and cross-fertilization in Pima cotton. 10¢.
- *1354 D. Productiveness of successive generations of self-fertilized lines of corn and of crosses between them. 10¢.
- *1396 D. Comparison of maize-breeding methods. 5¢.
- 1403 D. Segregation and correlated inheritance in Marquis and Hard Federation crosses, with factors for yield and quality of spring wheat in Montana. 15¢.

Technical Bulletins:

- 151 T. Vegetative propagation from the standpoint of plant anatomy. 35¢.

Department Circulars:

- 310 DC. Solar propagating frame for rooting citrus and other subtropical plants. 5¢.
- *323 DC. How to collect, label, and pack living plant material for long-distance shipment. 5¢.
- 333 DC. Search in foreign countries for blight-resistant chestnuts and related tree crops. 5¢.
- 387 DC. Pollination of the avocado. 5¢.

Miscellaneous Publications:

- 101 MP. Important western browse plants. 45¢.

Yearbook Separates:

- 852 Y. Flowering and fruiting of plants as controlled by the length of day. 5¢.
- *967 Y. Experiment station results in food-crop improvement. 5¢.
- *997 Y. Explorer for alien plants runs many risks in far lands. 5¢.
- 1137 Y. Cotton breeding today works with main types known to remote past. 5¢.
- 1140 Y. Nemas causing plant galls controlled best through crop rotation. 5¢.
- 1190 Y. Hereditary mutations induced in plants by the action of X ray. 5¢.
- 1192 Y. Lettuce breeding for disease resistance progresses rapidly. 5¢.
- 1197 Y. Plant growth by artificial light has possibilities. 5¢.
- 1218 Y. Insecticidal plants investigated as possible farm crops. 5¢.

PLANTS, FIBER*(See also under name of plant)***Department Bulletins:**

- *930 D. Production of binder-twine fiber in the Philippine Islands. 5¢.
- 1278 D. Production of henequen fiber in Yucatan and Campeche. 5¢.
- 186 C. Sisal and henequen, plants yielding fiber for binder twine. 5¢.

Miscellaneous Circulars:

- 110 MC. Ramie, a fiber-yielding plant. 5¢.

Yearbook Separates:

- *628 Y. Hemp. 15¢.
- *790 Y. Sisal and henequen as binder-twine fibers. 5¢.
- 1189 Y. Hemp fiber losing ground, despite valuable qualities. 5¢.

PLANTS AND HERBS, MEDICINAL**Farmers' Bulletins:**

- *188 F. Weeds used in medicine. 5¢.
- 304 F. Growing and curing hops. 5¢.
- 613 F. Goldenseal under cultivation. 5¢.
- 663 F. Drug plants under cultivation. 10¢.
- 736 F. Ginseng diseases and their control. 5¢.
- 1184 F. Ginseng culture. 5¢.
- 1231 F. Drying crude drugs. 5¢.
- 1555 F. Peppermint and spearmint as farm crops. 5¢.

Department Bulletins:

- *26 D. American medicinal flowers, fruits, and seeds. 5¢.
- 282 D. Study of soft resins in sulphured and unsulphured hops in cold and in open storage. 5¢.

Department Bulletins—Continued.

- *372 D. Commercial production of thymol from horsemint. 5¢.
- *568 D. Presence of arsenic in hops. 5¢.
- 867 D. Castor-oil industry. 10¢.
- *1057 D. Chaulmoogra tree and some related species; survey conducted in Siam, Burma, Assam, and Bengal. 15¢.

Circulars:

- 46 C. Methods of collecting and preserving pollen for use in treatment of hay fever. 5¢.

Miscellaneous Publications:

- 77 MP. American medicinal plants of commercial importance. 30¢.

Yearbook Separates:

- 1218 Y. Insecticidal plants investigated as possible farm crops. 5¢.

PLANTS, POISONOUS**Farmers' Bulletins:**

- 988 F. Larkspur or "poison weed." 5¢.
- 1166 F. Poison ivy and poison sumac, and their eradication. 5¢.
- 1273 F. Stock-poisoning death camas. 5¢.

Department Bulletins:

- *405 D. Lupines as poisonous plants. 10¢.
- 710 D. Stagger grass as poisonous plant. 5¢.
- 800 D. Whorled milkweed as poisonous plant. 15¢.
- 942 D. Poisonous properties of the whorled milkweeds, *Asclepias pumila* and *A. verticillata* var. *geyeri*. 10¢.
- *947 D. Western sneezeweed as a poisonous plant. 10¢.
- 969 D. The Mexican whorled milkweed as a poisonous plant. 5¢.
- *1012 D. Death camas species, *Zygadenus paniculatus* and *Z. elegans*, as poisonous plants. 10¢.
- *1212 D. Woolly-pod milkweed (*Asclepias eriocarpa*) as poisonous plant. 5¢.
- *1240 D. Meadow death camas (*Zygadenus venenosus*) as a poisonous plant. 5¢.
- *1245 D. Stock-poisoning plants of range. 35¢.
- *1274 D. Cocklebur (species of *Xanthium*) as poisonous plants. 10¢.
- *1376 D. Nuttall's death camas (*Zygadenus nuttallii*) as poisonous plant. 5¢.
- *1391 D. Rayless goldenrod (*Aplopappus heterophyllus*) as a poisonous plant. 5¢.

Technical Bulletins:

- 22 T. Wild tobacco (*Nicotiana trigonophylla* Dunal and *Nicotiana attenuata* Torrey) as stock-poisoning plants. 10¢.
- 29 T. Coyotillo (*Karwinska humboldtiana*) as poisonous plant. 10¢.
- 202 T. Toxic effects of St. Johnswort (*Hypericum perforatum*) on cattle and sheep. 5¢.
- 219 T. Mountain laurel (*Kalmia latifolia*) and sheep laurel (*Kalmia angustifolia*) as stock-poisoning plants. 10¢.

Department Circulars:

- *81 DC. *Astragalus tetrapetelus*, new poisonous plant of Utah and Nevada. 5¢.
- 101 DC. The whorled milkweed, plant poisonous to livestock. 5¢.
- *272 DC. Woolly-pod milkweed, a dangerous stock-poisoning plant. 5¢.
- *279 DC. Greasewood as a poisonous plant. 5¢.
- 283 DC. Livestock poisoning by cocklebur. 5¢.

POTATOES, IRISH**Farmers' Bulletins:**

- 847 F. Potato-storage houses. 5¢.
- 1050 F. Handling and loading southern new potatoes. 5¢.
- 1064 F. Production of main-crop potatoes. 5¢.
- 1091 F. Protection of potatoes from cold in transit, lining and loading cars. 5¢.
- 1190 F. How to grow an acre of potatoes. 5¢.
- 1205 F. Potato production in the South. 5¢.
- 1316 F. Marketing the early potato crop. 5¢.
- 1332 F. Seed potatoes and how to produce them. 5¢.
- 1367 F. Control of potato-tuber diseases. 10¢.
- 1436 F. Why potatoes run out. 5¢.
- 1462 F. The potato leafhopper and how to control it. 5¢.
- 1578 F. Marketing late-crop potatoes. 10¢.
- 1639 F. Potato production in the far Western States. 5¢.

Department Bulletins:

- *176 D. Group classification of varietal descriptions of some American potatoes. 20¢.
- *577 D. Experiments in the control of potato leak. 5¢.
- *895 D. Freezing point of potatoes as determined by the thermoelectric method. 5¢.
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- *998 D. Effect of borax in fertilizer on the growth and yield of potatoes. 5¢.
- *1146 D. Influence of copper sprays on yield and composition of Irish potato tubers. 5¢.

Department Bulletins—Continued.

- *1156 D. Investigation of potato wart. 10¢.
- *1188 D. Costs and farm practices in producing potatoes on 461 farms in Minnesota, Wisconsin, Michigan, New York, and Maine for the crop year 1919. 10¢.
- 1195 D. Sterilities of wild and cultivated potatoes with reference to breeding from seed. 10¢.
- *1248 D. Size of potato sets, comparisons of whole and cut seed. 10¢.
- *1465 D. Method of growing bacteriologically sterile potato plants. 15¢.

Technical Bulletins:

- 5 T. Source, character, and treatment of potato sets. 10¢.
- 7 T. Origin and distribution of the commercial potato crop. 15¢.
- 27 T. Freezing injury to potatoes. 10¢.
- 56 T. Factors of spread and repression in potato wart. 5¢.
- 62 T. Factors in inception and development of Fusarium rot in stored potatoes. 15¢.
- 117 T. Comparative influence of different storage temperatures on weight losses and vitality of seed potatoes. 5¢.
- 118 T. Studies in time and rate of irrigating potatoes in Colorado. 5¢.
- 119 T. Influence of freezing of seed potatoes on viability and yield. 5¢.
- 216 T. Effect of irrigation water on vigor and vitality of seed potatoes. 5¢.

Department Circulars:

- *32 DC. Potato wart, a dangerous new disease. 5¢.
- 214 DC. Fusarium tuber rot of potatoes. 5¢.
- 220 DC. Late-blight tuber rot of potato. 5¢.
- *238 DC. United States grades for potatoes. 5¢.
- 281 DC. Potato brown rot. 5¢.

Circulars:

- 87 C. Problems in cooperation and experiences of farmers in marketing potatoes. 5¢.
- 149 C. Marketing the commercial crop of early potatoes. 10¢.
- 158 C. A simple chemical test for predetermining the culinary quality of potatoes as affected by the accumulation of soluble salts. 10¢.
- 191 C. Time of planting as affecting yields of Rural New Yorker and Triumph potatoes in the Greeley, Colo., district. 5¢.

Miscellaneous Publications:

- 53 MP. Disinfecting seed potatoes. 5¢.

POULTRY AND EGGS**Farmers' Bulletins:**

- 684 F. Squab raising. 5¢.
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- 849 F. Capons and caponizing. 5¢.
- 1070 F. Fowl tick, and how premises may be freed from it. 5¢.
- 1200 F. Tuberculosis of fowls. 5¢.
- 1377 F. Marketing poultry. 5¢.
- 1378 F. Marketing eggs. 5¢.
- 1391 F. The guinea fowl. 5¢.
- 1409 F. Turkey raising. 5¢.
- 1506 F. Breeds of chickens: I. American, Asiatic, English, and Mediterranean classes. 10¢.
- 1507 F. Standard breeds and varieties of chickens: II. Continental European, Oriental, and miscellaneous classes. 10¢.
- 1508 F. Poultry keeping in back yards. 10¢.
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- 1538 F. Incubation and brooding of chickens. 5¢.
- 1541 F. Feeding chickens. 5¢.
- 1554 F. Poultry houses and fixtures. 10¢.
- 1614 F. Business records for poultry keepers. 5¢.
- 1652 F. Diseases and parasites of poultry. 10¢.

Department Bulletins:

- 17 D. Refrigeration of dressed poultry in transit. 10¢.
- *391 D. Accuracy in commercial grading of opened eggs. 15¢.
- *657 D. Wheatless ration for the rapid increase of flesh on young chickens. 5¢.
- *775 D. Commercial preservation of eggs by cold storage. 10¢.
- 846 D. Examination of frozen-egg products and interpretation of results. 10¢.
- *939 D. Turkey and important factor in spread of gapeworms. 5¢.
- 1385 D. Poultry and egg industry in Europe. 15¢.

Technical Bulletins:

- 60 T. Ineffectiveness of internal medication of poultry for control of external parasites. 5¢.
- 227 T. Developmental stages of some nematodes of the Spiruroidea parasitic in poultry and game birds. 15¢.

Department Circulars:

- 55 DC. How to load cars of eggs. 5¢.
 74 DC. Points for egg breakers: How to break eggs for freezing. 5¢.
 391 DC. Method of packing and of buffering and bracing cases of eggs in carload shipments. 5¢.

Circulars:

- 73 C. Cold storage of eggs and poultry. 15¢.
 111 C. An analysis of the business of the poultry producers of central California. 10¢.
 126 C. Pathological conditions ascribed to nematodes in poultry. 5¢.

Miscellaneous Circulars:

- *42 MC. How to pick chickens. 5¢.

Miscellaneous Publications:

- 127 MP. Peafowl and their care. 5¢.

Leaflets:

- 64 L. Construction and packing of an egg case. 5¢.

Yearbook Separates:

- *552 Y. Effect of present method of handling eggs on industry and product. 5¢.
 *647 Y. Egg and poultry demonstration car work in reducing our \$50,000,000 waste in eggs. 5¢.
 917 Y. Poultry industry. 20¢.
 980 Y. Poultry roundworms vary much in size and mode of living. 5¢.
 *986 Y. Poultry disease toll indicates necessity of control measures. 5¢.
 *1046 Y. Poultry breeders can increase profits by controlling production. 5¢.
 *1047 Y. Poultry's mineral requirements vary at different ages. 5¢.
 1125 Y. Poultry feeds should be chosen for protein materials and vitamins. 5¢.
 1126 Y. Poultry inbreeding, if practiced too closely is found to be harmful. 5¢.
 1127 Y. Poultry production is increased materially by battery brooding. 5¢.
 1168 Y. Poultry profits are largely dependent on high egg production. 5¢.
 1175 Y. Turkey raising is being stabilized by modern methods. 5¢.

Miscellaneous:

Candling and preserving eggs. (G-25).

RATS, RODENTS, AND OTHER MAMMALS

(See also under *Fur-Bearing Animals*)

Farmers' Bulletins:

- 525 F. Raising guinea pigs. 5¢.
 702 F. Cottontail rabbits in relation to trees and crops. 5¢.
 1247 F. American moles as agricultural pests and fur producers. 5¢.
 1397 F. Mouse control in field and orchard. 5¢.
 1533 F. Rat control. 5¢.
 1638 F. Rat-proofing buildings and premises. 5¢.

Department Bulletins:

- *915 D. The toxicity of barium carbonate to rats. 5¢.
 *1023 D. Relative toxicity of strychnine to the rat. 5¢.
 1091 D. Life history of kangaroo rat. 15¢.
 *1227 D. Damage to range grasses by Zuni prairie dog. 10¢.
 *1395 D. Bats in relation to production of guano and destruction of insects. 5¢.

Technical Bulletins:

- 134 T. Red-squill powders as raticides. 10¢.
 145 T. Life history and habits of grasshopper mice, genus *Onychomys*. 10¢.
 222 T. Genetic growth differentiation in guinea pigs. 10¢.
 224 T. Habits and economic status of the pocket gophers. 10¢.
 238 T. The pharmacology of thallium and its use in rodent control. 5¢.

Miscellaneous Publications:

- 86 MP. Outlines for studies of mammalian life histories. 5¢.
 115 MP. Information for the guidance of field men and cooperators of the Bureau of Biological Survey in the control of injurious rodents and predatory animals. 5¢.

Leaflets:

- 21 L. Woodchuck control in the Eastern States. 5¢.
 50 L. How to make a cat trap. 5¢.
 59 L. Hints on coyote and wolf trapping. 5¢.
 60 L. Porcupine control in the Western States. 5¢.
 65 L. Red-squill powder in rat control. 5¢.
 78 L. Hints on bobcat trapping. 5¢.

Yearbook Separates:

- *708 Y. Destroying rodent pests on the farm. 5¢.
 725 Y. House rat, most destructive animal in the world. 5¢.
 823 Y. Trapping on the farm. 5¢.
 855 Y. Death to the rodents. 5¢.

RECLAMATION PROJECTS AND EXPERIMENTS

Department Bulletins:

- *33 D. Cereal experiments in Dickinson, N. Dak. 10¢.
- *133 D. Experiments with crops under fall irrigation at Scottsbluff Reclamation Project Experimental Farm. 5¢.
- *135 D. Experiments in production of crops on alkali land in Huntley reclamation project, Montana. 5¢.
- *162 D. Horticultural experiments in San Antonio Field Station, Texas. 5¢.
- *270 D. Cereal experiments at Williston station. 10¢.
- *297 D. Cereal investigations on Belle Fourche experiment farm. 10¢.
- *398 D. Cereal experiments at Judith Basin substation, Moccasin, Mont. 10¢.
- *402 D. Cereal experiments at Akron Field Station, Colo. 10¢.
- *430 D. Cereal experiments on Cheyenne experiment farm, Archer, Wyo. 10¢.
- *546 D. Effect of fall irrigation on crop yields at Belle Fourche, S. Dak. 5¢.
- *1039 D. Experiments with cereals on the Belle Fourche experiment farm, Newell, S. Dak. 15¢.
- *1172 D. Cereal experiments at Chico, Calif. 10¢.
- 1257 D. Land reclamation policies in United States. 5¢.
- *1287 D. Experiments with cereals at Akron (Colo.) Field Station in 15-year period 1908 to 1922, inclusive. 15¢.
- *1301 D. Report of Northern Great Plains Field Station for 10-year period 1913-1922, inclusive. 15¢.
- *1304 D. Crop rotation and cultural methods at Akron (Colo.) Field Station. 5¢.
- 1306 D. Work of Sheridan Field Station for 7 years from 1917 to 1923, inclusive. 5¢.
- *1309 D. Experiments with small grains on Arlington Experiment Farm. 10¢.
- 1310 D. Experiments with fallow in north-central Montana. 5¢.
- 1337 D. Work on Northern Great Plains Field Station in 1923. 5¢.

Technical Bulletins:

- *14 T. Cereal experiments at Fort Hays Branch Station, Hays, Kans., 1912 to 1923. 15¢.
- 17 T. Work of United States Dry-Land Field Station, Ardmore, S. Dak., 1912-1925. 15¢.
- 116 T. Dairy work at the Huntley Field Station, Huntley, Mont., 1918-1927. 15¢.

Department Circulars:

- *60 DC. Work on the Belle Fourche Reclamation Project Experiment Farm in 1918. 5¢.
- *73 DC. Work of the San Antonio experiment farm in 1918. 5¢.
- *75 DC. Work of the Yuma Reclamation Project Experiment Farm in 1918. 10¢.
- 80 DC. Work in 1918 of the Newlands (formerly the Truckee-Carson) Reclamation Project Experiment Farm. 5¢.
- *86 DC. Work of the Huntley Reclamation Project Experiment Farm in 1918. 5¢.
- *110 DC. Work of the Umatilla Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- 136 DC. Work of Newlands Reclamation Project Experiment Farm in 1919. 5¢.
- *147 DC. Work of Huntley Reclamation Project Experiment Farm in 1919. 5¢.
- 173 DC. Work of Scottsbluff Reclamation Project Experiment Farm in 1918 and 1919. 5¢.
- *204 DC. Work of the Huntley Reclamation Project Experiment Farm in 1920. 5¢.
- *209 DC. Work of San Antonio experiment farm in 1919 and 1920. 10¢.
- *221 DC. Work of Yuma Reclamation Project Experiment Farm in 1919 and 1920. 10¢.
- *267 DC. Work of Newlands Reclamation Project Experiment Farm in 1920 and 1921. 5¢.
- *275 DC. Work of Huntley Reclamation Project Experiment Farm in 1921. 5¢.
- *277 DC. Crop tests at cooperative testing station, Sacaton, Ariz. 10¢.
- *289 DC. Work of Scottsbluff Experiment Farm in 1920 and 1921. 5¢.
- 330 DC. Work of Huntley Reclamation Project Experiment Farm in 1922. 5¢.
- *339 DC. Work of Belle Fourche Reclamation Experiment Farm, 1919-1922. 10¢.
- *342 DC. Work of Umatilla Reclamation Project Experiment Farm in 1920, 1921, 1922. 5¢.
- *352 DC. Work of Newlands Reclamation Project Experiment Farm in 1922 and 1923. 5¢.
- 369 DC. Work of the Huntley Field Station in 1923 and 1924. 10¢.

Publications preceded by an asterisk (*) are not for free distribution.

Department Circulars—Continued.

- 372 DC. Agricultural investigations at United States Field Station, Sacaton, Ariz., 1922, 1923, and 1924. 10¢.
 417 DC. Work of Belle Fourche field station in 1923, 1924, and 1925. 10¢.
 *422 DC. Work of Umatilla field station in 1923, 1924, and 1925. 5¢.
- Circulars:**
 5 C. Work of Scottsbluff Field Station, 1922 to 1925. 10¢.
 69 C. Work of the Newlands Field Station, Nevada, 1924-1927. 10¢.
 70 C. Work of the Huntley Field Station, Montana, 1925-26. 10¢.
 184 C. Methods of crop production at the Colby (Kans.) Branch Experiment Station, 1915 to 1929. 5¢.
 193 C. Crop rotation and tillage experiments at the San Antonio, (Tex.) Field Station. 10¢.
- Yearbook Separates:**
 690 Y. Agriculture on Government reclamation projects. 5¢.

REPORTS AND SURVEYS**Department Bulletins:**

- 1234 D. Agricultural survey of Europe: Danube Basin, Pt. 1. 15¢.
 1399 D. Agricultural survey of Europe: Germany. 20¢.
 1409 D. Agricultural survey of South America: Argentina and Paraguay. 20¢.

Technical Bulletins:

- 37 T. Agricultural survey of Europe: France. 25¢.
 94 T. Soil reconnaissance of the Panama Canal Zone and contiguous territory. 20¢.
 101 T. Agricultural survey of Europe: Switzerland. 15¢.
 126 T. Agricultural survey of Europe: The Danube Basin—Part 2, Rumania, Bulgaria, and Yugoslavia. 30¢.
 160 T. Agricultural survey of Europe: Hungary. 20¢.

Miscellaneous:

- *70 R. Exhaustion and abandonment of soils, testimony of Milton Whitney before Industrial Commission, 1901. 5¢.
 *89 R. Durability and economy in papers for permanent records, including specifications. 15¢.
 *95 R. Agricultural possibilities of Canal Zone. 30¢.
 *97 R. Influence of vegetables greened with copper salts on nutrition and health of man. 50¢.
 *99 R. Classification of Cryphalinae, with description of new genera and species. 15¢.
 *108 R. Acarina or mites. 30¢.
 *114 R. Some public and economic aspects of the lumber industry; studies of lumber industry, Pt. 1. 25¢.
 *115 R. Distribution of softwood lumber in the Middle West, wholesale distribution: Studies of the lumber industry, Pt. 8. 20¢.
 *116 R. Distribution of softwood lumber in the Middle West, retail distribution: Studies of the lumber industry, Pt. 9. 15¢.
 *117 R. The substitution of other materials for wood: Studies of the lumber industry, Pt. 11. 15¢.

Yearbook Separates:

- *875 Y. The year in agriculture. Report of the Secretary, 1921. 10¢.
 883 Y. The year in agriculture. Report of the Secretary, 1922. 10¢.
 *892 Y. The year in agriculture. Report of the Secretary, 1923. 15¢.
 913 Y. The year in agriculture. Report of the Secretary, 1924. 20¢.
 919 Y. The year in agriculture. Report of the Secretary, 1925. 15¢.
 928 Y. The year in agriculture. Report of the Secretary, 1926. 20¢.
 1023 Y. The year in agriculture. Report of the Secretary, 1927. 10¢.

RICE**Farmers' Bulletins:**

- 1092 F. Prairie rice culture. 5¢.
 1195 F. Rice as food [with recipes]. 5¢.
 1212 F. Straight head of rice and its control. 5¢.
 1240 F. How to grow rice in Sacramento Valley. 5¢.
 1420 F. Handling rough rice to produce high grades. 5¢.
 1543 F. Insects injurious to the rice crop. 5¢.

Department Bulletins:

- 570 D. By-products of rice milling. 5¢.
 *1116 D. Seedling blight and stack burn of rice and hot-water seed treatment. 10¢.
 *1127 D. Some new varieties of rice. 10¢.
 *1155 D. Rice experiments at the Biggs Rice Field Station in California. 10¢.

Department Bulletins—Continued.

- *1356 D. Experiments in rice production in southwestern Louisiana. 10¢.
 - *1387 D. Experiments in rice culture at Biggs Rice Field Station in California. 10¢.
- Circulars:**
- 48 C. Improved apparatus and method for making shellings of rough rice. 10¢.
 - 136 C. The Gehl laboratory rice-scouring device. 5¢.

ROADS AND BRIDGES**Department Bulletins:**

- *105 D. Progress reports of experiments in dust prevention and road preservation, 1913. 5¢.
- *136 D. Highway bonds, compilation of data, and analysis of economic features affecting construction and maintenance of highways financed by bond issues and theory of highway bond calculations. 20¢.
- *246 D. Vitrified brick pavements for country roads. 10¢.
- *249 D. Portland cement concrete pavements for country roads. 15¢.
- *257 D. Progress reports of dust prevention and road preservation, 1914. 10¢.
- *314 D. Methods for examination of bituminous road materials. 10¢.
- *347 D. Methods for determination of properties of road-building rock. 10¢.
- *370 D. Results of physical tests of road-building rock. 15¢.
- *388 D. Public road mileage and revenues, New England States, 1914. 10¢.
- *407 D. Progress reports of experiments in dust prevention and road preservation, 1915. 10¢.
- *532 D. Expansion and contraction of concrete and concrete roads. 10¢.
- *583 D. Report on experimental convict road camp, Fulton County, Ga. 25¢.
- *660 D. Highway cost keeping. 10¢.
- *670 D. Results of physical tests of road building rocks in 1916 and 1917. 5¢.
- *691 D. Typical specifications for bituminous road materials. 10¢.
- *1077 D. Portland cement concrete roads. 15¢.
- 1216 D. Tentative standard methods of sampling and testing highway materials, adopted by American Association of State Highway Officials, and approved by Secretary of Agriculture for use in connection with Federal-aid road construction. Revised, 1928. 30¢.
- 1259 D. Standard specifications for steel highway bridges, adopted by American Association of State Highway Officials and approved by Secretary of Agriculture for use in Federal-aid road work. 10¢.
- 1279 D. Rural highway mileage, income, and expenditures, 1921 and 1922. 15¢.
- 1486 D. Highway bridge location. 15¢.

Technical Bulletins:

- 55 T. Highway bridge surveys. 20¢.
- 265 T. Electrical equipment on movable bridges. 35¢.

Department Circular:

- 331 DC. Standard specifications for corrugated metal pipe culverts, adopted by American Association of State Highway Officials and approved by Secretary of Agriculture for use in connection with Federal-aid road work. 5¢.

Miscellaneous Circulars:

- 62 MC. Standards governing plans, specifications, contract forms, and estimates for Federal-aid highway projects, as provided in rules and regulations for carrying out Federal highway act and amendments thereto (except its provisions relative to forest roads), approved by Secretary of Agriculture and containing standards of practice for plans and specifications adopted by American Association of State Highway Officials. 5¢.
- 109 MC. Federal legislation and regulations relating to improvement of Federal-aid roads, and national-forest roads and trails. 10¢.

Miscellaneous Publications:

- 76 MP. The result of physical tests of road-building rock. 25¢.

Yearbook Separates:

- *849 Y. Roads. 5¢.
- 914 Y. Highways and highway transportation. 25¢.
- 1036 Y. Road work on farm outlets needs skill and right equipment. 5¢.

RUBBER

Department Bulletins:

- *1286 D. South American leaf disease of Para rubber. 10¢.
- 1380 D. Pathological survey of the Para rubber tree (*Hevea brasiliensis*) in Amazon Valley. 15¢.
- 1422 D. Hevea rubber tree in Amazon Valley. 15¢.

Technical Bulletins:

- 65 T. Experimental tapping of Hevea rubber trees at Bayeux, Haiti, 1924-25. 5¢.

Yearbook Separates:

- 993 Y. Rubber possibilities of many kinds exist in the United States. 5¢.

RURAL AND COMMUNITY BUILDINGS AND CONVENIENCES

Farmers' Bulletins:

- 927 F. Farm home conveniences. 5¢.
- 1132 F. Planning the farmstead. 5¢.
- 1173 F. Plans of rural community buildings. 5¢.
- 1194 F. Operating home heating plant. 5¢.
- 1227 F. Sewage and sewerage of farm homes. 10¢.
- 1245 F. Farmers' telephone companies, organizing, financing, and management. 5¢.
- 1318 F. Greenhouse construction and heating. 5¢.
- 1325 F. Social aspects of rural planning. 5¢.
- 1342 F. Dairy-barn construction. 5¢.
- 1350 F. Beef-cattle barns. 5¢.
- 1388 F. Rural planning—social aspects of recreation places. 5¢.
- 1393 F. Principles of dairy-barn ventilation. 5¢.
- 1441 F. Rural planning—the village. 10¢.
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- 1559 F. Rural libraries. 10¢.
- 1590 F. Fire-protective construction on the farm. 5¢.
- 1622 F. Rural buildings for business and social uses. 10¢.
- 1638 F. Rat-proofing buildings and premises. 5¢.
- 1667 F. Rural community fire departments. 10¢.

Department Bulletins:

- *825 D. Rural community buildings in United States. 10¢.

Technical Bulletins:

- *109 T. A study of the oil burner as applied to domestic heating. 20¢.

Department Circulars:

- *189 DC. The well-planned kitchen. 5¢.
- 405 DC. The domestic oil burner. 10¢.

Circulars:

- 166 C. Suggestions for the improvement of old bank dairy barns. 10¢.

Yearbook Separates:

- 626 Y. Organization of rural interests. 5¢.
- *644 Y. American farm woman as she sees herself. 5¢.
- *675 Y. How Department of Agriculture promotes organization in rural life. 5¢.
- *789 Y. Housing the worker on the farm. 5¢.
- *812 Y. Reorganization of the country school. 5¢.

RURAL ENGINEERING, MECHANICS, AND MACHINERY

(See also under Drainage, Irrigation)

Farmers' Bulletins:

- 744 F. Preservative treatment of farm timbers. 5¢.
- 1045 F. Laying out fields for tractor plowing. 5¢.
- 1078 F. Harvesting and storing ice on the farm. 5¢.
- 1131 F. Tile-trenching machinery. 5¢.
- 1214 F. Farm dairy houses. 5¢.
- 1234 F. Gullies, how to control and reclaim them. 5¢.
- 1279 F. Plain concrete for farm use. 5¢.
- 1342 F. Dairy-barn construction. 5¢.
- 1393 F. Principles of dairy-barn ventilation. 5¢.
- 1426 F. Farm plumbing. 5¢.
- 1448 F. Farmstead water supply. 10¢.
- 1452 F. Painting on the farm. 5¢.
- 1460 F. Simple plumbing repairs in the home. 5¢.
- 1480 F. Small concrete construction on the farm. 10¢.
- 1487 F. Practical hog houses. 5¢.
- 1526 F. Clearing land of brush and stumps. 10¢.
- 1565 F. Shall I buy a combine? 5¢.
- 1572 F. Making cellars dry. 5¢.
- 1589 F. Husker-shredder on eastern Corn-Belt farms. 5¢.
- 1608 F. Operation and care of the combined harvester-thresher. 5¢.
- 1649 F. Construction of chimneys and fireplaces. 5¢.

Farmers' Bulletins—Continued.

- 1658 F. Farm water power. 10¢.
 1660 F. The use of logs and poles in farm construction. 10¢.
 1667 F. Rural community fire departments. 10¢.
 1669 F. Farm terracing. 5¢.

Department Bulletins:

- *230 D. Oil-mixed Portland cement concrete. 10¢.
 512 D. Prevention of erosion of farm lands by terracing. 15¢.
 *718 D. Small sawmills, their equipment, construction, and operation. 10¢.
 *910 D. Experience of eastern farmers with motor trucks. 10¢.
 *931 D. Corn-Belt farmers' experience with motor trucks. 10¢.
 *1136 D. Kiln drying handbook. 30¢.
 1202 D. Tractors and horses in winter wheat belt, Oklahoma, Kansas, Nebraska. 10¢.
 1254 D. Farm motor-truck operations in New England and Central Atlantic States. 5¢.
 1348 D. Appraisal of power used on farms in United States. 15¢.
 *1500 D. Gluing of wood. 25¢.

Technical Bulletins:

- 70 T. Combined harvester-thrasher in the Great Plains. 15¢.
 187 T. Ventilation of farm barns. 25¢.
 205 T. Gluing wood in aircraft manufacture. 25¢.
 244 T. Harvesting small grain, soybeans, and clover in the Corn Belt with combines and binders. 15¢.
 269 T. Economical use of large tile for land drainage. 5¢.

Department Circulars:

- *94 DC. TNT as a blasting explosive. 10¢.
 191 DC. Use of explosives in blasting stumps. 5¢.
 212 DC. Manufacture and sale of farm equipment in 1920. 5¢.

Circulars:

- *61 C. High-pressure gas-compression system. 10¢.
 128 C. Effectiveness of moisture excluding coatings on wood. 10¢.

Miscellaneous:

- *38 MP. Research in mechanical farm equipment. 10¢.
 56 MP. Low-cutting devices for harvesting corn. 15¢.

Leaflets:

- 56 L. Preventing cracks in new wood floors. 5¢.
 62 L. Why some wood surfaces hold paint longer than others. 5¢.
 77 L. Bracing farm buildings. 5¢.
 82 L. Controlling small gullies by bluegrass sod. 5¢.

Yearbook Separates:

- *799 Y. Electric light and power in farm home. 5¢.
 *824 Y. Securing a dry cellar. 10¢.
 *825 Y. The horsepower problem on the farm. 5¢.

RYE**Farmers' Bulletins:**

- 756 F. Culture of rye in the eastern half of the United States. 5¢.
 1358 F. Growing rye in western half of United States. 5¢.
 1607 F. Nematode disease in wheat and rye. 5¢.

SANITATION AND HEALTH

(See also under *Home Economics, Diseases, Insects*)

Farmers' Bulletins:

- 450 F. Some facts about malaria. 5¢.
 602 F. Production of clean milk. 5¢.
 954 F. Disinfection of stables. 5¢.
 1227 F. Sewage and sewerage of farm homes. 10¢.

Department Bulletins:

- 1098 D. Impounding water in a bayou to control breeding of malaria mosquitoes. 15¢.

Yearbook Separates:

- *619 Y. Health laws. 5¢.

SEED**Farmers' Bulletins:**

- 428 F. Testing farm seeds in the home and in the rural school. 5¢.
 948 F. Rag-doll seed tester: Its use in determining what ears of corn are fit for seed. 5¢.
 1232 F. Seed-marketing hints for the farmer. 5¢.
 1390 F. Vegetable seed for home and market garden. 5¢.
 1496 F. Inoculation of legumes and nonlegumes with nitrogen-fixing and other bacteria. 10¢.

Technical Bulletins:

- 260 T. Results of seed-treatment experiments with yellow dent corn. 20¢.
 261 T. Longevity and germination of seeds of *Ribes* [currants and gooseberries], particularly *R. rotundifolium*, under laboratory and natural conditions. 15¢.

Department Circulars:

- 406 DC. Rules for seed testing. 5¢.

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Circulars:

- 53 C. Seed counter. 5¢.
 79 C. The application of statistical methods to seed testing. 5¢.
 153 C. Methods of seed production from sugar beets overwintered in the fields. 10¢.

Yearbook Separates:

- *757 Y. Seed supply of the Nation. 5¢.
 775 Y. Some effects of the war upon the seed industry of the United States. 5¢.
 1131 Y. Forage-crop seed imports vary much from year to year Sources world-wide. 5¢.

SHEEP, GOATS, WOOL

(See also under *Diseases, Insects, Marketing*)

Farmers' Bulletins:

- 576 F. Breeds of sheep for the farm. 5¢.
 713 F. Sheep scab. 5¢.
 798 F. Sheep tick and its eradication by dipping. 5¢.
 810 F. Equipment for farm sheep raising. 5¢.
 840 F. Farm sheep raising for beginners. 5¢.
 920 F. Milk goats. 5¢.
 1134 F. Castrating and docking lambs. 5¢.
 1155 F. Diseases of sheep, infectious and noninfectious. 5¢.
 1172 F. Slaughtering and use of lamb and mutton. 5¢.
 1181 F. Sheep on temporary pastures. 5¢.
 1199 F. Judging sheep. 5¢.
 1203 F. The Angora goat. 5¢.
 1268 F. Sheep-killing dogs. 5¢.
 1330 F. Parasites and parasitic diseases of sheep. 5¢.
 1632 F. Karakul sheep. 5¢.

Department Bulletins:

- *206 D. Wool grower and the wool trade. 15¢.
 996 D. Flushing and other means of increasing lamb yields. 5¢.
 *1100 D. Method of determining grease and dirt in wool. 5¢.

Technical Bulletins:

- 35 T. Studies of occurrence and elimination of kemp fibers in mohair fleeces. 5¢.
 85 T. Factors that influence wool production with range Rambouillet sheep. 15¢.
 124 T. Some factors affecting the marketing of wool in Australia, New Zealand, Union of South Africa, England and France, 1929. 25¢.

Department Circulars:

- *87 DC. Sweetclover seed screenings not injurious to sheep. 5¢.

Miscellaneous Circulars:

- 50 MC. The Angora goat and mohair industry. 30¢.

Leaflets:

- 13 L. Sheep and goat lice, methods of control and eradication. 5¢.

Yearbook Separates:

- *709 Y. Progress in handling the wool clip, development in the West. 5¢.
 894 Y. The sheep industry. 15¢.
 987 Y. Sheep improvement demonstrated by United States South-downs. 5¢.
 988 Y. Sheep watering permits use of dry grazing land. 5¢.
 1123 Y. Lambs born twins are more profitable than singles, figures show. 5¢.
 1124 Y. Wool of long staple is most profitable in tests with Rambouillet sheep. 5¢.
 1167 Y. Milk goats show effect of good feed by prompt increase in production. 5¢.
 1170 Y. Sheep grow better on alfalfa than timothy hay, experiments show. 5¢.
 1176 Y. Wool growth increased by supplemental feeding of sheep on the range. 5¢.

SILOS AND SILAGE

(See also under *Feeds and Feeding*)

Farmers' Bulletins:

- 578 F. Making and feeding of silage. 5¢.
 825 F. Pit silos. 5¢.
 855 F. Homemade silos. 5¢.

Department Bulletins:

- *953 D. Nitrogen and other losses during the ensiling of corn. 5¢.
 *1045 D. The sunflower as a silage crop. 10¢.

Technical Bulletins:

- 43 T. Sorgo silage, sorgo fodder, and cotton seed hulls as roughages in rations for fattening calves in the Southwest. 10¢.

Department Circulars:

- *319 DC. Composition of sugar-beet pulp and tops and of silage therefrom. 5¢.

Yearbook Separates:

- 1128 Y. Soybeans are valuable for silage when grown with other field crops. 5¢.

SOILS**Farmers' Bulletins:**

- 446 F. Choice of crops for alkali land. 5¢.
 921 F. Principle of liming of soils. 5¢.
 1475 F. Soil productivity as affected by crop rotation. 5¢.
 1629 F. Steam sterilization of soil for tobacco and other crops. 5¢.

Department Bulletins:

- *141 D. Clyde series of soils. 15¢.
 *142 D. Miami series of soils. 15¢.
 *159 D. Soils of the Sassafras series. 15¢.
 677 D. Soils of southern New Jersey, and their uses. 40¢.
 *1005 D. Soils of eastern Virginia and their uses for truck-crop production. 35¢.
 *1108 D. Tables for microscopic identification of inorganic salts. 5¢.
 1122 D. Absorption by colloidal and noncolloidal soil constituents. 5¢.
 1139 D. Storage of water in soil and its utilization by spring wheat. 5¢.
 1193 D. Estimation of colloidal material in soils by absorption. 5¢.
 1221 D. Capillary distribution of moisture in soil columns of small cross section. 5¢.
 1311 D. Chemical composition of soil colloids. 10¢.
 1314 D. Bibliography relating to soil alkalies. 10¢.
 1419 D. Factors and problems in selection of peat lands for different uses. 15¢.
 *1452 D. Properties of colloidal soil material. 10¢.

Technical Bulletins:

- 94 T. Soil reconnaissance of the Panama Canal Zone and contiguous territory. 20¢.
 128 T. Alteration of muscovite and biotite in the soil. 10¢.
 170 T. A pipette method of mechanical analysis of soils based on improved dispersions procedure. 5¢.
 178 T. Properties of soils which influence soil erosion. 5¢.
 182 T. Factors affecting the chemical application of fertilizers to the soil. 30¢.
 211 T. Some methods for detecting differences in soil organic matter. 5¢.
 214 T. The physical and chemical characteristics of certain American peat profiles. 5¢.
 228 T. Characters of the colloidal material in the profiles of certain major soil groups. 5¢.
 229 T. Variations of the colloidal material extracted from the soils of the Miami, Chester, and Cecil series. 5¢.
 232 T. A laboratory study of the field percolation rates of soils. 5¢.

Department Circulars:

- 419 DC. Grouping of soils on basis of mechanical analysis. 5¢.
 423 DC. Use of electrolytic bridge for determining soluble salts. 5¢.

Circulars:

- 33 C. Soil erosion a national menace. 25¢.
 55 C. Soil factors influencing crop production in Arkansas Valley, Colo. 10¢.
 *56 C. Methods for determining hydrogen-ion concentration of soils. 5¢.
 139 C. Method and procedure of soil analysis used in the division of soil chemistry and physics. 5¢.
 167 C. Moss peat, its uses and distribution in the United States. 5¢.

Leaflets:

- 86 L. Strip cropping to prevent erosion. 5¢.

Yearbook Separates:

- 950 Y. Alkali in irrigated districts. 5¢.
 *965 Y. Experiment stations promote soil betterment. 5¢.
 1002 Y. Crotalaria pays in soil improvement on sandy southern land. 5¢.
 1208 Y. Nitrate bacteria, main source of soil nitrates, depend on farm practice. 5¢.

LIST OF AVAILABLE SOIL SURVEYS**Arranged Alphabetically by States and Counties**

(Where not specified the price is 15¢)

The majority of the edition of each report is distributed by the United States Senators and Representatives from the areas surveyed; a limited number are available for distribution by the Bureau of Chemistry and Soils, United States Department of Agriculture. Editions are inadequate to meet the demand and therefore reports of not more than three separate areas and not to exceed one copy of each report may be sent free to one individual. The price at which these reports may be purchased is

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indicated, and if more than three reports are desired the request together with the necessary sum should be forwarded to the Superintendent of Documents, Government Printing Office.

Many counties not listed have been surveyed, but both the free and sale stocks are entirely exhausted. They may be consulted in public libraries which keep a file of all soil surveys.

Beginning with the 1923 series, soil survey reports will be issued separately. These reports of the individual areas will be sent to libraries as soon as they are available and should be filed, preserved, and ultimately bound to take the place of the bound volumes of the field operations which have previously been supplied by the department, and which were discontinued with the edition of 1922. The reports for each year will be consecutively numbered, the last report for a particular year bearing the conspicuous notice: "This number is the final and last soil survey for the year 192-."

ALABAMA

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Polk Co. 25¢.
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Bradford Co.
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Lancaster area.
Lancaster Co.
Lebanon area.
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Weber area.

VERMONT

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Henrico Co.
Leesburg area.
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- *516 D. Table for converting weights of mechanical separations into percentages of sample analyzed. 5¢.
- *574 D. Conversion of weights and mechanical separations of corn, wheat, and other grains into percentages. 5¢.
- *634 D. Physical and chemical study of the kafir kernel. 5¢.
- 666 D. Effect of alkali treatment on cocoas. 5¢.
- 740 D. Study of some of the chemical changes which occur in oysters during their preparation for market. 5¢.
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- 857 D. Modified Boerner sampler. 5¢.
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- 897 D. Weight variations of package foods. 5¢.
- 1009 D. Volume variation of bottled foods. 5¢.
- 1013 D. Influence of relative humidity and moisture content of wheat on milling yields and moisture content of flour. 5¢.
- *1114 D. Detection of hypochlorites and chloramins in milk and cream. 5¢.
- 1130 D. Significance of wheat hairs in microscopical examination of flour. 5¢.
- *1152 D. Soy and related fermentations. 15¢.
- 1183 D. Milling and baking experiments with American wheat varieties. 15¢.
- 1187 D. Experimental milling and baking, including chemical determinations. 15¢.
- 1203 D. Experimental production of straw gas. 5¢.
- 1307 D. Absorption and retention of hydrocyanic acid by fumigated food products. Pt. 2. 5¢.
- 1375 D. Brown-Duvel moisture tester and how to operate it. 15¢.
- 1390 D. Chemistry and analysis of permitted coal-tar food dyes. 10¢.
- *1463 D. Influence of granulation on chemical composition and baking quality of flour. 10¢.

Technical Bulletins:

- *1 T. Tests of methods for commercial standardization of raisins. 5¢.
- 8 T. Dietary scales and standards for measuring a familys' nutritive needs. 5¢.
- 105 T. Short method of calculating energy, protein, calcium, phosphorus, and iron in the diet. 5¢.
- 108 T. Stiffness in fabrics produced by different starches and starch mixtures, and a quantitative method for evaluating stiffness. 10¢.
- 154 T. A method for determining the color of agricultural products. 10¢.
- 162 T. Tests of various alipathic compounds as fumigants. 10¢.

Technical Bulletins—Continued.

- 212 T. Mechanical analysis of finely divided natural phosphates. 5¢.
 217 T. Beef production and quality as affected by grade of steer and feeding grain supplement on grass. 15¢.
 239 T. Method of determining the volume and tonnage of hay-stacks. 10¢.

Circulars:

- 8 C. National standards for farm products. 15¢.
 9 C. Bates laboratory aspirator. 5¢.
 110 C. Specific gravity and Baumé gravity tables for turpentine. 5¢.
 138 C. Development and use of baking powder and baking chemicals. 5¢.
 139 C. Methods of procedure of soil analysis used in the Division of Soil Chemistry and Physics. 5¢.
 158 C. A simple chemical test for predetermining the culinary quality of potatoes as affected by the accumulation of soluble salts. 10¢.
 164 C. An apparatus for determining the tenderness of fruits and vegetables. 5¢.
 183 C. Factors for converting percentages of nitrogen in food and feeds into percentages of proteins. 5¢.
 190 C. Buckwheat milling and its by-products. 5¢.
 198 C. United States Food and Drug Administration methods of testing antiseptics and disinfectants. 10¢.

Miscellaneous Circulars:

- 28 MC. Tables for converting crude protein and ash content to uniform moisture base. 5¢.

Miscellaneous Publications:

- 33 MP. Advantages of standards for livestock and meats. 5¢.
 75 MP. Method of testing the capacity of fruit and vegetable containers under the U. S. Standard container act. 5¢.

Leaflets:

- 67 L. Beef grading and stamping service. 5¢.

Yearbook Separates:

- *539 Y. Respiration calorimeter and results of experiments with it. 5¢.
 *569 Y. Decomposition and its microscopical detection in some food products. 5¢.
 811 Y. Why produce inspection pays. 5¢.
 1118 Y. Wheat that is slightly germinated helps flour when sparingly blended. 5¢.
 1144 Y. Labels on veterinary drug preparations should be studied. 5¢.
 1142 Y. Labels on food packages a safe guide to buyer if text is carefully read. 5¢.
 1143 Y. Food and drugs imported are tested at ports for purity and true labeling. 5¢.
 1162 Y. Federal meat inspection protects consumers and locates animal diseases. 5¢.
 1169 Y. Scales may be balanced and be very sensitive and yet be inaccurate. 5¢.

STATISTICS AND ESTIMATES**Department Bulletins:**

- *296 D. Our foreign trade in farm and forest products. 10¢.
 *755 D. Geographical phases of farm prices; oats. 10¢.
 *769 D. Production and conservation of fats and oils in United States. 10¢. Supplement. 5¢.
 *792 D. Reports of storage holding of certain food products during 1918, frozen meats, cured meats and lard, frozen fish, cured herring, and mild-cured salmon. 10¢.
 987 D. Handbook of foreign agricultural statistics. 10¢.
 *1083 D. Farm and terminal market prices: Wheat, corn, and oats. 10¢.
 1480 D. Reliability and adequacy of farm-price data. 15¢.

Technical Bulletins:

- 96 T. Yields of barley in United States and Canada, 1922-1926. 15¢.
 172 T. Taxation of farm property. 15¢.

Statistical Bulletins:

- 2 S. Seed statistics, year ending May 31, 1923, with comparable data for earlier years. 15¢.
 3 S. Sheep, lamb, mutton, and wool statistics, year ended March 31, 1923, with comparable data for earlier years. 15¢.
 4 S. Cold-storage holdings to October, 1924. 5¢. (This is a revision of Statistical Bulletin 1.)
 5 S. Horses, mules, and motor vehicles, year ended March 31, 1924, with comparable data for earlier years. 15¢.
 6 S. Grain futures, daily data, volume of trading on Chicago Board of Trade, January 1, 1921, to May 31, 1924. 5¢.

Statistical Bulletins—Continued.

- 7 S. Shipments and unloads of certain fruits and vegetables, 1918-1923. 15¢.
- 8 S. Carload shipments of fruits and melons from stations in United States for 1920, 1921, 1922, and 1923. 10¢.
- 9 S. Carload shipments of vegetables from stations in United States for 1920, 1921, 1922, and 1923. 15¢.
- 10 S. Statistics of potatoes and sweetpotatoes, year ended July 31, 1924, with comparable data for earlier years. 10¢.
- 11 S. Hay and feed statistics, year ended December 31, 1924, with comparable data for earlier years. 15¢.
- 12 S. Wheat and rye statistics, year ended December 31, 1924, with comparable data for earlier years. 15¢.
- 13 S. Cold-storage holdings, year ended December, 1925, with comparable data for earlier years. 10¢.
- 14 S. Prices of farm products received by producers: 1, North Atlantic States. 20¢.
- 15 S. Prices of farm products received by producers: 2, North Central States. 30¢.
- 16 S. Prices of farm products received by producers: 3, South Atlantic and South Central States. 35¢.
- 17 S. Prices of farm products received by producers: 4, Mountain and Pacific States. 25¢.
- 18 S. Statistics of hogs, pork and pork products, year ended December 31, 1925, with comparable data for earlier years. 30¢.
- 19 S. Carload shipments of fruit and vegetables from stations in United States, calendar years 1924 and 1925. 15¢.
- 20 S. Statistics of cattle, calves, beef, veal, hides, and skins, year ended December 31, 1925, with comparable data for earlier years. 40¢.
- *21 S. American forests and forest products. 45¢.
- 22 S. Vegetable statistics, year ended December 31, 1926, with comparable data for earlier years. 35¢.
- 23 S. Car-lot shipments and unloads of important fruits and vegetables, 1924-1926. 25¢.
- 24 S. Statistics of fats, oils, and oleaginous raw materials. 15¢.
- 25 S. Dairy statistics, year ended December 31, 1926, with comparable data for earlier years. 35¢.
- 26 S. Cold-storage holdings, year ended December 31, 1927, with comparable data for earlier years. 5¢.
- 27 S. Car-lot shipments of fruits and vegetables in the United States for the calendar years 1926-27. 25¢.
- 28 S. Corn statistics, year ended December 31, 1928, with comparable data for earlier years. 25¢.
- 29 S. Statistics of oats, barley, and grain sorghums, year ended December 31, 1928, with comparable data for earlier years. 25¢.
- 30 S. Car-lot shipments and unloads of certain fruits and vegetables, 1928-29. 25¢.
- 31 S. Wheat futures. 35¢.
- 32 S. Stumpage and log prices for the calendar year 1928. 10¢.
- 33 S. Cold-storage holdings, December 31, 1929. 10¢.
- 34 S. Corn futures, volume of trading, open commitments and prices, from January 3, 1921, to December 31, 1929. 35¢.
- 35 S. Car-lot shipments of fruits and vegetables from stations in the United States for the calendar years 1928 and 1929. 25¢.
- 36 S. Stumpage and log prices for the calendar year 1929. 15¢.

Department Circulars:

- 150 DC. Statistical data compiled and published by Bureau of Crop Estimates, 1863-1920; Pt. 1, Publications of Bureau of Crop Estimates; Pt. 2, Subjects included in reports and records of Bureau of Crop Estimates. 10¢.
- *241 DC. Food animals and meat consumption in United States, 1922. 5¢.
- 373 DC. Revised estimates of crop acreages, New York, 1862-1919: Study of methods used in revising crop and livestock estimates of Department of Agriculture. 5¢.

Circulars:

- 150 C. The farm real-estate situation. 1929-30. 10¢.

Miscellaneous Circulars:

- *9 MC. Importation and exportation of tea. 5¢.
- *23 MC. Agricultural outlook for 1924. 5¢.
- 38 MC. Agricultural outlook for 1925. 5¢.
- 41 MC. Estimating the quantity of grain in bins, with chart reducing the necessary computations. 5¢.
- 65 MC. Agricultural outlook for 1926. 5¢.
- *101 MC. Agricultural outlook for 1927. 10¢.

Miscellaneous Publications:

- 17 MP. Crop report regulations. 1928. 5¢.
- 19 MP. Agricultural outlook for 1928. 10¢.
- *44 MP. Agricultural outlook for 1929. 10¢.
- 73 MP. The agricultural outlook for 1930. 10¢.

Miscellaneous Publications—Continued.

- 95 MP. World wheat outlook, 1930. 10¢.
 102 MP. Agricultural outlook for the Southern States, 1930-31. 10¢.
 105 MP. A graphic summary of American agriculture based largely on the census. 60¢.
 108 MP. The agricultural outlook for 1931. 15¢.
 112 MP. Farm outlook for 1931. 5¢.
 124 MP. The outlook for the dairy industry and some essentials of a national dairy program. 15¢.
 137 MP. The agricultural outlook for the Southern States, 1931-32. 10¢.

Yearbook Separates:

- *631 Y. Livestock and miscellaneous agricultural statistics, 1913. 5¢.
 *656 Y. Livestock, 1914, and census data. 5¢.
 682 Y. Statistics of grain crops, 1915. 5¢.
 *713 Y. Graphic summary of world agriculture. 15¢.
 752 Y. World's supply of wheat. 5¢.
 763 Y. Cotton warehousing, benefits of an adequate system. 5¢.
 788 Y. Government market reports on livestock and meats. 5¢.
 791 Y. Statistics of grain crops, 1918. 5¢.
 792 Y. Statistics of crops other than grain crops, 1918. 5¢.
 793 Y. Livestock, 1913 [statistics of farm animals and their products]. 5¢.
 *794 Y. Imports and exports of agricultural products. 5¢.
 *795 Y. Miscellaneous agricultural statistics, 1918. 5¢.
 801 Y. Pre-war crop estimates in Germany. 5¢.
 807 Y. Influence of depreciation of exchange on agricultural production. 5¢.
 *826 Y. Statistics of grain crops, 1919. 10¢.
 *827 Y. Statistics of crops, other than grain crops, 1919. 10¢.
 *828 Y. Livestock, 1919 [statistics of farm animals and their products]. 5¢.
 829 Y. Imports and exports of agricultural products. 5¢.
 830 Y. Miscellaneous agricultural statistics, 1919. 5¢.
 *861 Y. Statistics of grain crops, 1920. 10¢.
 862 Y. Statistics of crops other than grain crops, 1920. 10¢.
 *863 Y. Livestock statistics, 1920. 10¢.
 *864 Y. Imports and exports of agricultural products [1920]. 10¢.
 *867 Y. Imports and exports of agricultural products [1921]. 5¢.
 *868 Y. Statistics of grain crops, 1921. 10¢.
 869 Y. Statistics of crops other than grain crops, 1921. 15¢.
 *870 Y. Livestock statistics, 1921. 10¢.
 *871 Y. Miscellaneous agricultural statistics, 1921. 5¢.
 *878 Y. Graphic summary of American agriculture, based largely on census of 1920. 20¢.
 880 Y. Imports and exports of agricultural products [1922]. 5¢.
 881 Y. Statistics of grain crops, 1922. 10¢.
 884 Y. Statistics of crops other than grain crops, 1922. 15¢.
 *887 Y. Miscellaneous agricultural statistics, 1922. 10¢.
 888 Y. Livestock statistics, 1922. 15¢.
 891 Y. Oats, barley, rye, rice, grain, sorghums, seed flax, and buckwheat [1922]. 15¢.
 898 Y. Bread grains [statistics, 1923]. 10¢.
 *899 Y. Grains other than bread grains [statistics, 1923]. 10¢.
 *900 Y. Fruits and vegetables, 1923 [statistics]. 10¢.
 *901 Y. Crops other than grains, fruits, and vegetables [statistics], 1923. 10¢.
 905 Y. Imports and exports of agricultural products [1923]. 5¢.
 *906 Y. Miscellaneous agricultural statistics [1923]. 10¢.
 *907 Y. Grains statistics [1924]. 15¢.
 *908 Y. Crops other than grains [1924]. 20¢.
 *909 Y. Farm animals and their products [1924]. 20¢.
 *911 Y. Exports and imports of agricultural products [1924]. 10¢.
 *912 Y. Miscellaneous agricultural products [1924]. 15¢.
 *920 Y. Statistics of grain [1925]. 15¢.
 *921 Y. Statistics of fruits and vegetables [1925]. 15¢.
 *922 Y. Statistics of field crops other than grains [1925]. 15¢.
 *923 Y. Statistics of farm animals and their products [1925]. 20¢.
 924 Y. Foreign trade of United States in agricultural products [1925]. 10¢.
 926 Y. Miscellaneous agricultural statistics [1925]. 25¢.
 *931 Y. Fruit and vegetable production [1925]. 65¢.
 *932 Y. Statistics of grains [1926]. 15¢.
 *933 Y. Statistics of fruits and vegetables [1926]. 10¢.
 934 Y. Statistics of field crops other than grains [1926]. 15¢.
 *935 Y. Statistics of farm animals and animal products [1926]. 20¢.
 *936 Y. Foreign trade of United States in agricultural products [1926]. 5¢.
 937 Y. Miscellaneous agricultural statistics [1926]. 10¢.
 *973 Y. Statistics of grains [1927]. 10¢.
 *974 Y. Statistics of fruits and vegetables [1927]. 10¢.
 *975 Y. Statistics of field crops other than grains [1927]. 10¢.
 *976 Y. Statistics of farm animals and animal products [1927]. 10¢.

Yearbook Separates—Continued.

- *977 Y. Dairy and poultry statistics [1927]. 5¢.
- 978 Y. Foreign trade of United States in agricultural products [1927]. 5¢.
- 979 Y. Miscellaneous agricultural statistics [1927]. 10¢.
- 981 Y. Meat production and consumption in United States [1927]. 5¢.
- 1026 Y. Statistics of grains. (1928.) 10¢.
- 1027 Y. Statistics of fruits and vegetables. (1928.) 10¢.
- 1028 Y. Statistics of field crops other than grains. (1928.) 10¢.
- 1029 Y. Statistics of farm animals and animal products. (1928.) 10¢.
- 1030 Y. Dairy and poultry statistics. (1928.) 10¢.
- 1031 Y. Foreign trade of United States in agricultural products. (1928.) 10¢.
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- 1102 Y. Prices of farm products graphically presented. (1930.) 10¢.
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- 1105 Y. Statistics of fruits and vegetables. (1930.) 10¢.
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- 1110 Y. Miscellaneous agricultural statistics, 1930. 15¢.
- 1113 Y. Starches imported for some uses, though the United States makes surplus cornstarch. 5¢.
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- 1148 Y. Statistics of grains. (1931.) 15¢.
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- 1150 Y. Statistics of fruits and vegetables. (1931.) 15¢.
- 1151 Y. Statistics of miscellaneous crops. (1931.) 10¢.
- 1152 Y. Statistics of cattle, hogs, sheep, horses, mules, asses, and honey. (1931.) 15¢.
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- 1154 Y. Foreign trade of the United States in agricultural products. (1931.) 10¢.
- 1155 Y. Farm business and related statistics. (1931.) 10¢.
- 1156 Y. Miscellaneous agricultural statistics. (1931.) 10¢.

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- 1637 F. Sugar-beet culture in the humid area of the United States. 10¢.
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Department Bulletins:

- *238 D. Sugar beets, preventable losses in culture. 10¢.
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- *693 D. Farm practice in growing sugar beets for three districts in Utah and Idaho, 1914-15. 10¢.
- *726 D. Farm practice in growing sugar beets for three districts in Colorado, 1914-15. 10¢.
- *735 D. Farm practice in growing sugar beets in Billings region of Montana. 10¢.
- *760 D. Farm practice in growing sugar beets in three California districts. 10¢.
- *963 D. Cost of producing sugar beets in Utah and Idaho, 1918-19. 10¢.
- *995 D. Beet-sugar industry in the United States in 1920. 20¢.

Technical Bulletins:

- 206 T. Ecological studies of the beet leafhopper. 30¢.

Department Circulars:

- 262 DC. Length of dormancy period of sugar-beet nematode in Utah. 5¢.

- *388 DC. Resistance in sugar beets to curly top. 5¢.

Circulars:

- 20 C. Seed production from sugar beets overwintered in field. 5¢.
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- 153 C. Methods of seed production from sugar beets overwintered in the fields. 10¢.
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Yearbook Separates:

- 1200 Y. Sugar-beet strains resistant to leaf spot and curly top. 5¢.
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 1366 F. Production of maple sirup and sugar. 5¢.
 1389 F. Sorgo-sirup manufacture. 5¢.
 1619 F. Sorgo for sirup production, harvesting, and handling. 10¢.

Department Bulletins:

- *466 D. Maple sugar, composition, methods of analysis, effect of environment. 5¢.
 829 D. Mosaic diseases of sugarcane and other grasses. 10¢.
 1158 D. Production of sirup from sweetpotatoes. 10¢.
 1370 D. Sugarcane sirup manufacture. 10¢.

Technical Bulletins:

- 41 T. Sugarcane moth borer in United States. 25¢.

Department Circulars:

- *303 DC. Hot-water treatment of sugarcane for insect pests—a precaution. 5¢.
 337 DC. Hot-water treatment of dormant and sprouted seed cane. 5¢.
 366 DC. Root disease of sugarcane in Louisiana. 5¢.
 *392 DC. Rare cases of mosaic disease in highly resistant varieties of sugarcane. 5¢.
 418 DC. Yield tests of disease-resistant sugarcanes in Louisiana. 5¢.

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- *36 C. Sugarcane variety tests in Louisiana during crop year, 1926-27. 5¢.
 45 C. Application of sodium fluosilicate by airplane in attempt to control sugarcane moth borer. 5¢.
 88 C. Variety tests of sugarcanes in Louisiana during the crop year, 1927-28. 5¢.
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 162 C. Variety tests of sugarcanes in Louisiana during the year 1928-29. 5¢.
 187 C. Variety tests of sugarcanes in Louisiana during the year 1929-30. 5¢.

Yearbook Separates:

- *893 Y. Sugar. 20¢.
 1089 Y. Sugarcane varieties for sirup production now being tried out. 5¢.
 1090 Y. Sugar industry saved in Louisiana by using disease-resistant varieties of cane. 5¢.

SWEETPOTATOES**Farmers' Bulletins:**

- 999 F. Sweetpotato growing. 5¢.
 1059 F. Sweetpotato diseases. 5¢.
 1267 F. Sweetpotato storage in flue-heated tobacco barns. 5¢.
 1442 F. Storage of sweetpotatoes. 5¢.

Department Bulletins:

- *1021 D. Group classification and varietal description of American varieties of sweetpotatoes. 30¢.
 1158 D. Production of sirup from sweetpotatoes. 10¢.
 1206 D. Marketing southern-grown sweetpotatoes. 10¢.

Yearbook Separates:

- 1117 Y. Sweetpotatoes high in food value and vitamin content. 5¢.

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- 523 F. Tobacco curing. 5¢.
 571 F. Tobacco culture. 5¢.
 846 F. Tobacco beetle and how to prevent damage by it. 5¢.
 1425 F. The tobacco flea-beetle in dark fire-cured tobacco districts of Kentucky and Tennessee. 5¢.
 1489 F. Green June beetle larva in tobacco beds. 5¢.
 1494 F. Tobacco cutworms and their control. 5¢.
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 1580 F. Cigar-tobacco production in Pennsylvania. 5¢.
 1629 F. Steam sterilization of soil for tobacco and other crops. 5¢.

Department Bulletins:

- *59 D. Tobacco splitworm. 5¢.
 *765 D. Strains of White Burley tobacco resistant to root rot. 5¢.
 1256 D. Tobacco diseases and their control. 25¢.
 1410 D. Brown rot of tobacco and other plants. 10¢.

Technical Bulletins:

- 12 T. Fertilizer tests with flue-cured tobacco. 15¢.
 88 T. Tobacco cutworms. 35¢.
 175 T. Breeding tobacco for resistance to Thielavia root rot. 10¢.

Department Circulars:

- *174 D.C. Dangerous tobacco disease appears in United States. 5¢.

Circulars:

- 100 C. Business analysis of the Tobacco Growers' Cooperative Association. 25¢.

Miscellaneous Circulars:

- *55 M.C. Type classification of American-grown tobacco prepared under authority of United States warehouse act of August 11, 1916. 1926. 5¢.
 83 M.C. United States standard tobacco sizes. 10¢.

Yearbook Separates:

- 972 Y. Tobacco markets show cigarettes in growing favor. 5¢.

TOMATOES**Farmers' Bulletins:**

- 1233 F. Tomatoes for canning and manufacturing. 5¢.
 1291 F. Preparation of fresh tomatoes for market. 5¢.
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Department Bulletins:

- *569 D. Sanitary control of tomato-canning factories. 5¢.
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 *632 D. Utilization of waste tomato seeds and skins. 5¢.
 *1099 D. Frost injury to tomatoes. 5¢.

Technical Bulletins:

- 189 T. Experiments on the control of tomato yellows. 10¢.
 268 T. Effects of various temperatures on storage and ripening of tomatoes. 15¢.

Department Circulars:

- 219 D.C. Phoma rot of tomatoes. 5¢.
 *282 D.C. Australian tomato weevil introduced in the South. 5¢.
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Circulars:

- 29 C. Bacteria canker of tomatoes. 5¢.
 169 C. Tomato late-blight rot, a serious transit and market disease. 5¢.

Miscellaneous Publications:

- *13 M.P. Yellows, serious disease of tomatoes. 5¢.

Yearbook Separates:

- 1003 Y. Tomatoes resistant to nailhead rust now widely planted. 5¢.
 1215 Y. Ethylene-ripened tomatoes not equal in vitamins to naturally ripened fruit. 5¢.

VEGETABLES

(See also under Gardening and name of vegetable)

Farmers' Bulletins:

- 232 F. Okra, its culture and uses. 5¢.
 879 F. Home storage of vegetables. 5¢.
 1253 F. Seed peas for the canner. 5¢.
 1255 F. Production of peas for canning. 5¢.
 1269 F. Celery growing. 5¢.
 1320 F. Production of cucumbers in greenhouses. 5¢.
 1396 F. The dasheen, a southern root crop for home use and market. 5¢.
 1418 F. Lettuce growing in greenhouses. 5¢.
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 1609 F. Lettuce growing. 5¢.
 1620 F. Growing cucumbers for pickling. 5¢.
 1646 F. Asparagus culture. 5¢.

Department Bulletins:

- *1167 D. Cultivation of true yams in Gulf region. 10¢.
 *1247 D. Taros and yautias; promising new food plants for the South. 15¢.

Technical Bulletins:

- 33 T. Jerusalem artichoke as crop plant. 5¢.

Department Circulars:

- *125 D.C. Forcing and blanching dasheen shoots. 5¢.
 *286 D.C. Chayote, its culture and uses. 5¢.

Yearbook Separates:

- 994 Y. Vegetable industry has big expansion in quarter century. 5¢.
 1007 Y. Vegetable gardens of United States owe much to American Indians. 5¢.
 1183 Y. Chayote, tropic cucurbit, finds wider market as it becomes better known. 5¢.
 1192 Y. Lettuce breeding for disease resistance progresses rapidly. 5¢.

VETCHES

Farmers' Bulletins:

515 F. Vetches, with chapter on vetch seed and its adulterants. 5¢.

1206 F. Corn ear worm in vetch. 5¢.

Department Bulletins:

*876 D. Hairy-vetch seed production in the United States. 10¢.

*1174 D. Hungarian vetch. 5¢.

*1289 D. Common vetch and its varieties. 5¢.

Circulars:

152 C. Monantha vetch. 5¢.

WEATHER

Farmers' Bulletins:

1588 F. Frost and the prevention of frost damage. 10¢.

Miscellaneous Circulars:

81 MC. Relations between crop yields and precipitation in Great Plains area. 30¢.

Same, supplement No. 1. Crop rotations and tillage methods. 50¢.

Miscellaneous Publications:

71 MP. Weather forecasting from synoptic charts. 20¢.

114 MP. The Weather Bureau. 5¢.

118 MP. The influence of weather on crops: 1900-1930, a selected and annotated bibliography. 40¢.

Yearbook Separate:

*918 Y. Weather and agriculture. 20¢.

1129 Y. Weather Bureau gets data on behavior and effects of tornadoes. 5¢.

1133 Y. Weather's influence on plant diseases important and frequently dominant. 5¢.

Miscellaneous:

*Weather maps series.—(1) Barometer table, (2) Explanation of weather map and sample weather map, (3) Cloud chart, (4) The Weather Bureau, pamphlet descriptive of work of bureau. 10¢ per set.

*Daily weather map (Form C), first edition, shows weather conditions for United States and forecast for States east of Mississippi River, except Illinois, Wisconsin, Indiana and upper and lower Michigan. Issued daily except Sundays and holidays at Washington, D. C. 25¢ per month.

*Daily weather map (Form C) second edition, shows weather conditions for United States and forecast for all States. Issued daily at Washington, D. C. 30¢ per month, \$3 per year.

*Daily weather map (Map DD) shows weather conditions and forecasts issued, except Sundays and holidays, at about 65 stations in United States. 20¢ per month, \$2 per year.

*Copies of the Daily weather maps can not be furnished in quantities unless the order is placed with the Superintendent of Documents in advance of issue and are sold at 1¢ each.

*Climatic charts for United States; 12 in series; (1) normal annual precipitation; (2) average number of days with precipitation; (3) normal annual temperature; (4) normal January temperature; (5) normal July temperature; (6) highest temperature ever observed; (7) lowest temperature ever observed; (8) mean relative humidity (per cent) January, 8 a. m., 75th meridian time; (9) mean relative humidity (per cent) January, 8 p. m., 75th meridian time; (10) mean relative humidity (per cent), July, 8 a. m., 75th meridian time; (11) mean relative humidity (per cent), July, 8 p. m., 75th meridian time; (12) average minimum temperature (Fahrenheit), January. Single charts 5¢ each, 50¢ per set.

*Blank Weather Maps for use in meteorological studies will be furnished on receipt of price, viz, Washington base maps (Form C, 19 by 24 inches), \$1 per 100; station base maps (Maps DD, 11 by 16 inches), 25¢ per 100. Blank maps being of the nature of supplies, can not be furnished free. Draft or money order must be made payable to Disbursing Clerk, U. S. Department of Agriculture, Washington, D. C., and forwarded with order to U. S. Weather Bureau, Washington, D. C. When more than 50 blank Washington base maps (Form C, 19 by 24 inches) or more than 150 blank station base maps (Maps DD, 11 by 16 inches), are ordered at one time shipment has to be made by express "collect" for express charges, and must be so authorized by purchaser. Full shipping instructions must accompany the order.

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Technical Bulletin:

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WHEAT

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